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 aagagcccggt aattgtaacc ccacctacca aacaatcact agtaaaagta ctaaaaactc 360  
 caaaatgtgc actaaaatgg atgattttga gtgtgtactc ctaaattaga acactttggt 420  
 atctctgaat atacta 436

<210> 19  
 <211> 503  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (441)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (450)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (461)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (463)  
 <223> n equals a,t,g, or c

<400> 19  
 tgtgcatatc ctggggaaaa aaatggtaca tgttttagaa attttactgt ttataacaat 60  
 gcaggcagtc agttttccgt ttcaaacaca gatagataca tgcaacactc aagatcctgc 120  
 agagaggcag ccagcatcta ttgtttaaaa aggtttcaaa aagaattcgg attgctcktt 180  
 tctcttttga atctgtgtgc caaatgacag ggaccaatat tcgctcttct tttckgtaaa 240  
 aytcaaaaag amacatgaaa gaacccagaa tgcatttctt aaagggtatt agtgcagtta 300  
 ttttaaaaaa tttatgcacg cacacacaca tacatatatc ccccgagtac atattttttc 360  
 cctttttact tgtgtgcaat cagtagctac aatgactgaa atccactct ttgggactgt 420  
 gacatttaag caaatcttgt ntctagaaan cgaaatgccca nantctcgca caaagctgct 480  
 ccgtctgggg caacaaatcc aca 503

<210> 20  
 <211> 358  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (358)  
 <223> n equals a,t,g, or c

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<400> 20
gggctgtctc cccagtagta acttgctggc cctgcccttg aagtggggaa actgtgaagg      60
gctccttgat caagcttgct ctcttttctt acctcttctt ctcttctggt tccgtgcgag      120
ctgaacacggc cagcaggcaa cctgccatgg ggtcctgctc caagaacccg tctcttctct      180
ggatgaactgg gctcctggta ttcatcagcc tctcctcctg tgagtggcag ggtccctggg      240
aggggagggc aatggagag gctggggcta gctggggctc gaccaacggg ttggctgttc      300
aactcttgat gtctttgggc aacaacacag aaaaacactc tgttatgatt tacgaaan      358

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<210> 21
<211> 1926
<212> DNA
<213> Homo sapiens

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<220>
<221> SITE
<222> (54)
<223> n equals a,t,g, or c

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<220>
<221> SITE
<222> (1689)
<223> n equals a,t,g, or c

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```

<400> 21
agtgaaggga gctggccgtg cgactgggct tggggccctg tgccagagga gcangccttc      60
ctgagcagga ggaagcaggt ggtggcccg ccttgaggc aggccctgca gctggatgga      120
gacctgcagg aggatgagat cccagtggta gctattatgg ccactggtgg tgggatccgg      180
cgaatgacct cctgtagtgg gcagctggct ggctgaagg agctgggctt ctggattgac      240
ktctctaca tcaccggggc ctcgggctcc acctgggctt tggccaacct ttataaggac      300
ccagagtggg ctcaagaagg cctggcaggg cccactgagt tgctgaagac ccaggtgacc      360
aagaacaagc tgggtgtgct ggccccagc cagctgcagc ggtaccggca ggagctggcc      420
gagcgtgccc gcttgggcta cccaagctgc ttcaccaacc tbtggggcct catcaacgag      480
gcgctgtgct atgatgagcc coactgatcac aagctctcag atcaacggga ggccctgagt      540
catggccaga accctctgcc catctactgt gccctcaaca ccaaagggca gagcctgacc      600
acctttgaat ttggggagtg gtgcgagttc tctccctacg aggtcggctt ccccaagtac      660
ggggccttca tccctctga gctctttggc tccgagttct ttatggggca gctgatgaag      720
aggcttctct agtcccgcct ctgcttctta gaaggtatct ggagcaacct gtagcagcc      780
aacctccagg acagcttata ctgggctca gagcccagc agttctggga gactgggtc      840
aggaaccagg ccaacctgga caaggagcag gtcccccttc tgaagataga agaaccacc      900
tcaacagccg gcagaatagc tgagtttttc accgactctc gatcgtggcg tccactggcc      960
caggccacac ataatttctt gcgtggcctc catttccaca aagactactt teagcatcct      1020
cactctccca catggaaaagc taccactctg gatgggctcc ccaaccagct gacacctctg      1080
gagccccacc tgtgctgtct ggaatgttggc taactcatca ataccagctg ctgcctccctc      1140
ctgcagccca ctggggagct ggacctcact ctgtcattgg actacaacct ccacggagcc      1200
ttccagagct tgcagctcct ggccgggttc tgccagggagc aggggactccc gttccaccac      1260
actctgcgcc cccccgaaga gcagctccag cctcggggagt gccacacctt ctccgacccc      1320
acctgcccgg gagcccctgc ggtgctgcac ttctctctgg tcagcgagct ctccggggag      1380
taactggccc ctgggggtcgg gcggacaccc gagggagcggc cagctgggga ggtgaacctg      1440
ctctctcagg actctcccta ccaactacag aaggtgacct acagcgagga gcagctgggac      1500
aagctgtctg acctgcacac ttacaatgtc tgcacaacac agggagcagct gctggaggct      1560
ctgcgcagcg cagtgcagcg gagcgccagc cgcaggcccc actgatggcc ggggcccctg      1620
ccacccctaa ctctcatcca ttcctgggct gctgagttgc aggtgggaaac tgtcatcaag      1680
cagtgcttnc agagcctcgg gctcaggttg cactgtccca ggggtccagc tgagggtctg      1740
gagctccctt gcgcctcagc agtttgcagt ggggttaagg gggccaagcc atttggttaa      1800
tcacccaaaa cccccggccc tgtgctgtgt ttcccttctg gcctaccttg agtagtctga      1860
gcacttgata catcacagac tcatacaaat gtgaggcgct gagaaaaaaa aaaaaaaaaa      1920
actcga

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<210> 22
<211> 1224

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<212> DNA  
<213> Homo sapiens

<400> 22  
ccgcggaagc tccgtccccc cgcgggcggg ctccgectca cctcccgccc gcggctgccc 60  
tcgcgccggg ttgtccaaaga tggaggggcg tccaccgggg tcgctcgccc tccggctcct 120  
gctgttcgtg gcgctaccgg cctccggcgtg gctgacgacg ggcgcgcccg agccgcggcc 180  
gctgtccggg gccccacagg acggcatcag aattaatgta actacactga aagatgatgg 240  
ggacatatct aaacagcagg ttgtctctaa cataacctat gagagtggag aggtgtatgt 300  
aaatgaacta cctgtaataa gtgggtgtaac cgaataaagc tgtcagacct tgtatagtga 360  
gaatgaaaaa cttgaaaaatt tggaggaaaa agaataatctt ggaattgtca gtgtaaggat 420  
tttagttcat gagtggcccta tgacatctgg ttccagtttg caactaatgt tcaattcaaga 480  
agaggtagta gagattgatg gaaaaacaagt tcaagcaaaag gatgtcactg aaattgatat 540  
tttagtttaag aaccgggggg tactcagaca ttcaaaactat accctccctt tggagaagaa 600  
catgctctac tctattttct gagacagtga cattttatct acccttcccta accctcccaa 660  
aaaaaaaagt gtttagttcac tgcaaacacc tagccagtat cttatcagga atgtggaaac 720  
cactgttagt gaagatgttt tacctgggca agttacctga aactcctctc agagcagagc 780  
cgccatcttc atataaggta atgtgtcagt ggatggaaaa gtttagaaaa gatctgtgta 840  
gggtctggag caacgttttc ccagttattct ttccagttttt gaacatcatg gtgggtggaa 900  
ttacaggagg agctgtggta ataaccatct taaagggttt ttccccagtt tctgaataca 960  
aaggaaattct tcagttggat aaagtggagc tcatacctgt gcacgctatc aacttatatc 1020  
cagatgtgtcc agagaaaaaga gctgaaaaac ttgaagataa aacatgtatt taaaacgcca 1080  
tctcatataa tggactccga agtagcctgt tgctccaaa tttgccactt gaataataat 1140  
ttcttttaac cgttaagaat cagttttatc actagagaaa ttgctaaact ctaagactgc 1200  
ctgaaaaattg acctttacag tgcc 1224

<210> 23  
<211> 694  
<212> DNA  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (577)  
<223> n equals a,t,g, or c

<400> 23  
ggcacgagtc ttattgtgca ctgtagcctg aatccccag ggtaattaat atgaagtgca 60  
aaaagtgtga ttgtccagtc taaaaggcag tgggagaaat tacatagcat ggaaaaataa 120  
aaatgaactc ttattaatga gaacgaggct ctgctcagtg caagtctctc tgggtaccgcg 180  
atggggatgg gagcctttca agcttttttt tgggtaatac tcacagtttc caacgtctgt 240  
gtacttttca aaatgagctt gttcttcctt cgtgacactca tctcaaaagt ccatgggtgac 300  
gcagagggtc gttgaaggtc acaggctcct gcttgcatgt gcatacggct cgttagcatc 360  
acctgttagc ccaactgctg ttgaaggaaac taagagtatt cagggataga gagctgaaaa 420  
taggataaat tctctccttt tgactctccc ctaagatgtg ccttgctttg gtcgtgaaac 480  
ctctcccgac aacttttgcc caaagcaaac catctgcctt ttctgaaact tgagtgaata 540  
tattagcatc ttccctctcg agccctcgta ctgccangtt tgtttgtttg tttgtttcca 600  
agagactgtg tcttgctctg tcaccaggga gtttgaaacc agcctggcaa catagcaaga 660  
ccctatctct acaaaaaaaaa aaaaaaaaaa aaaa 694

<210> 24  
<211> 796  
<212> DNA  
<213> Homo sapiens

<400> 24  
atgagcggcg gttggatggc gcaggttgga gcgtggcgaa caggggctct gggcctggcg 60  
ctgctgctgc tgcctggcct cggactaggc ctggaggcgc cgcgagcccg ctttccacc 120  
cgacctctgc ccaggccgca ccgagctca ggctcgtgac caccaccaa gttccagtc 180  
cgcaaccagt gcttatgcgt gcccctcacc tggcgtctgc acaggacttg gactgcagcg 240

atggcagcga	tgaggaggag	tgcaggattg	agccatgtac	ccagaagaagg	caatgcccac	300
cgccccctgg	cctccccctgc	ccctgcaccg	gcgtcagtg	ctgtctctggg	ggaactgcac	360
agaaactcgc	caactgcagc	cgcttggcct	gcctagcags	gragskcmcg	wkgcaccgtg	420
agcgatgact	gcattccact	cacgtggcgc	tgcgacggcc	accagactg	tcccgaactcc	480
agcgacgagc	tgggctgtgg	aaccaatgag	atcctcccg	aaggggatgc	cacaaccatg	540
gggcccctgg	tgacctggga	gagtgccacc	tctctcagga	atgccacaac	catggggccc	600
ccgtgtgccc	tggagagtgt	ccctctctgc	gggaatgcca	catcctcctc	tgcgggagac	660
cagctctggaa	gcccaactgc	ctatgggggt	attgcagctg	ctgcgggtgt	cagtgccaagc	720
ctgggtcaccg	ccaccctcct	cctttgtgct	tggctccgag	ccagaggagc	cctccgccca	780
ctgggggttac	tggtgg					796

<210> 25  
 <211> 662  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (647)  
 <223> n equals a,t,g, or c

<400> 25						
taattcggca	cgaggctgtg	tgggagaagg	acgtgccgtg	ccgctgggtt	ctgagccgga	60
gtggctgggtg	gggtgggatgg	aggcgacatt	ggagcagcac	ttggaagaca	caatgaagaa	120
tcctccatt	gttggagtcc	tgtgcacaga	tcacaagga	cttaactctgg	gttgcccgcg	180
gacctgtgca	gatgagcatg	ctggagtgat	atctgttcta	gccagcagag	cagctaagct	240
aacctctgac	cccactgata	ttcctgtggt	gtgtctagaa	tcagataatg	ggaacattat	300
gatccagaaa	cacgatggca	tcacggtggc	agtgcacaaa	atggcctcct	gatgctcata	360
tctgttcttc	agcagcctgt	cataggaact	ggatccctacc	tatgttaatt	acottataga	420
actactaaag	ttccagtagt	tagggcattc	atttaattgt	cattaggcac	ttttctgttt	480
attttaagagt	caattgcttt	ctaattgctt	atggaccagc	tatcaagata	ttagtaagaa	540
aggatcatgt	tttgaagcag	caggtccagg	tcactttgta	tatagaattt	tgtcttatcc	600
aataaatctg	tttggaggaa	aaaaaaaaaa	aaaaaaaaaa	ctgcggncgg	acaaggggaa	660
tc						662

<210> 26  
 <211> 1105  
 <212> DNA  
 <213> Homo sapiens

<400> 26						
cctgatactc	tcttttctgc	agttcaaggg	aaagacgaga	tcttgacaaa	ggcactctgc	60
ttctgcccct	ggctggggaa	gggtggcatg	gagcctctcc	ggctgctcat	cttactcttt	120
gtcacagagc	tgtccggagc	ccacaacacc	acagtgttcc	agggcggtgg	gggccagttc	180
ctgcaggtgt	cttgccccta	tgactccatg	aagcactggg	ggaggcgcaa	ggcctggtgc	240
cgccagctgg	gagagaaggg	ccatgccag	cgtgtggcca	gcacgcacaa	cttbtgtgctg	300
ctgtcctccc	tgaggagggtg	gaatgggagc	acagccatca	cagacgatca	cctgggtggc	360
actctacca	ttagctctgc	gaattctaaa	cccatgatg	cggttctcta	ccagtgcagc	420
agcctccatg	gcagtgagcg	tgacacccct	aggaaggctc	tggtagaggt	gctcgcagac	480
ccccgtgac	acgggagtcg	tggagatctc	tggttcccgc	gggagctcga	gagettcgag	540
gatgcccatg	tggagcacag	catctccagg	agctcttctt	aggaaggccc	gcacattccc	600
attctctccc	ctcttgctca	tcyttctcct	ccaagayctg	catctttctc	atcaagattc	660
tagcagccag	gcctctctgg	gctgcagcct	ggcatggaca	gaagccaggg	acacatccac	720
ccagtgaaat	ggactgtggc	catgacccag	ggtatcagct	ccaaactctg	ccagggctga	780
gagacacgtg	aagggaagatg	atgggaggaa	aagcccagga	gaagtcccac	cagggaccag	840
ccagactcgc	atacttgcca	cttggccacc	aggactcctt	gttctgctct	ggcaagagac	900
tactctgctc	gaacactgct	tctcctggac	cctggaagca	gggactggtt	gagggagtgg	960
ggaggtggta	agaacacctg	acaactctct	aatattggac	atttttaaca	cttacaataa	1020
aatccaagac	tgtctatttt	aaaaaaaaaa	aaaaaaaaaa	aaarrrrrrc	cccggatacc	1080
aattgcacct	atagtgaatc	gtata				1105

<210> 27  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 27  
 ctgcctggg ctgtttcccg gcttcatttc tcccgactca gcttccacc ctgggctttc 60  
 cgaggtgctt tcgcgctgt cccaccact gcagccatga tctccttaac ggacagcag 120  
 aaaaattgaa tgggattaac aggattttgga gtgtttttcc tgttcttttg aatgattctc 180  
 ttttttgaca aagcactact ggctattgga aatgttttat ttgtagccgg ctgtgctttt 240  
 gtaatttggt tagaagaagc attcagattc ttcttccaaa aacataaaat gaaagctaca 300  
 ggtttttttc tgggttggtt atttgtatgc cttattggtt ggcttttgat aggcattgac 360  
 ttcgaaattt atggattttt tctcttggtc aggggcttct tctctgtgtg tgttggcttt 420  
 attagaagag tgccagtcct tggatccctc ctataattac ctggaattag atcattttgta 480  
 gataaagtgg gagaaagcaa caatatggta taacaacaag tgaatttgaa gactcattta 540  
 aaatattgtg ttatttataa agtcatttga agaattatca gcacaaaatt aaattacatg 600  
 aaatagcttg taatgttctt tacaggagtt taaaacgtat agcctacaaa gtaccagcag 660  
 caaatttagca aagaagcagt gaaaacagcg ttctactcaa gtgaactaag aagaagtcag 720  
 caagcaaaact gagagaggtg aaatccatgt taatgatgct taagaaaatc tgaaggcta 780  
 tttgtgtgtg ttttccacaa tgtgcgaaac tcagccatcc tttagagaact gtgggtgcctg 840  
 tttctttttc ttttattttt aaggctcagg agcatccata ggcattttgt ttttagaaat 900  
 gtccactgca atggcaaaaa tatttccagt tgcactgtat ctctggaagt ttttagaaga 960  
 ttcgattgga ttgtgtcatt ttaaagtatt aaaaccaagg gaaaccccaa aaaaaaa 1017

<210> 28  
 <211> 391  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (281)  
 <223> n equals a,t,g, or c

<400> 28  
 ccctggaagg aggaactgat gtttgagggg acagatgtgg gtcactttcc ctggcagtg 60  
 cctctagcct tgctgccttg gctttctgac cccttcagg cttcaggggc ctgggagatc 120  
 tcatgctcca gccacgaaaa catttaaatg ggaacagcga gacatgtcat gtcagcccca 180  
 cagacaagaa tttctagagc acttgtcctg ttgttctctg ccccgacatt actcagctg 240  
 ggccatggaa tccatccaat aaacacagca acacctatg ntactgacca agcaaaagctt 300  
 gcccttggtg ccaaaagagt aaatcatgac caaagtgtga catgaattga actgaaatgc 360  
 gggtttagtg ctcaatgtat gcaaaagtcc a 391

<210> 29  
 <211> 1139  
 <212> DNA  
 <213> Homo sapiens

<400> 29  
 ggtgatatct tcatagtggg ctattacagg caggaaaaatg ttttaactgg tttacaaaa 60  
 ccacataac ttgtgtcatt cctgttaaaa ggcaggagac atgtgattat gatcaggaaa 120  
 ctgcacaaaa ttattgtttt cagccccctg gttattgtcc ttttgaactg tttttttttt 180  
 attaaagcca aatttgtgtt gtatatattc gttattccatg ttttagatgg aagcatttcc 240  
 tatccaggtg gaataaaaaa acagttgtga gtaaaattat ataaagccga tgatatttca 300  
 tggcaggtta ttctaccaa ctgtgcttgt tggtttttcc catgactgta tgccttttat 360  
 aaatgtacaa atagttactg aaatgacgag accctgtgtt gcacagcatt aataagaacc 420  
 ttgataagaa ccatattctg ttgacagcca gctcacagtt tcttgctgta agcttggtgc 480  
 accctccagt gagacacaa atctctcttt taccaaagtt gagaacagag ctgtgtgatt 540

aattaatagt	cttcgatatc	tggccatggg	taacctcatt	gtaactatca	tcagaaatggg	600
cagagatgat	cttgaagtgt	cacatacaact	aaagtccaaa	cactatgtca	gatgggggta	660
aatccattta	aagaacagga	aaaaataatt	ataagatgat	aagcaaatgt	ttcagcccaa	720
tgtcaaccca	gttaaaaaaa	aaattaatgc	tgtgtaaaat	ggttgaatta	gtttgcaaac	780
tatataaaga	catatgcagt	aaaaagtcgt	ttaatgcaca	tcctgtggga	atggagtggt	840
ctaaccaatt	gcctttttct	gttatctgag	ctctcctata	ttatcatact	cagataacca	900
aattaaaaga	attagaatat	gatttttaat	acacttaaca	ttaaactctt	ctaactttct	960
tcttctctgt	taatttcaga	ggatcttcaa	tgccctctgag	tcattgttat		1020
aaaaaatcag	ttatcactat	accatgctat	aggagactgg	gcaaaacctg	tacaatgaca	1080
accctggaag	ttgctttttt	taaaaaaata	ataaatttct	taaatcaaaa	aaaaaaaaaa	1139

<210> 30  
 <211> 465  
 <212> DNA  
 <213> Homo sapiens

<400> 30						
ccacgcgtcc	gcggacgcgt	ggggaaggtt	tgtgccagta	gacattatgt	tactaaatca	60
gcactttaaa	atctttgggt	ctctaatcca	tatgaatttg	ctgtttgtct	taattttctt	120
gggctctctt	aatcttgagt	gagtacaatt	ttgttgtgaa	acagtcaggt	gaactgtgtc	180
agggaaatga	aggtagaatt	ttgggaggtg	ataatgatgt	gaaacataaa	gatttaataa	240
ttactgtcca	acacagtgga	gcagctgtgc	cacaaatata	gtaatfacta	tttattgtct	300
taagggaagt	taaaaaaaga	tagggaaaag	ggggaaactt	ctttgaaaaa	tgaaacatct	360
gttacattaa	tgtctaatta	taaaatttta	atccttactg	catttctctt	gttcctacaa	420
atgtattaaa	catttcagttt	aactgggttaa	aaaaaaaaaa	aaaaa		465

<210> 31  
 <211> 702  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (299)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (488)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (699)  
 <223> n equals a,t,g, or c

<400> 31						
gcaacaagcg	gcccaccttc	ctgaagatca	agaagccact	gtcgtaccgc	aagccccatgg	60
acacgggacct	gggtgtacatc	gagaagtgcg	ccaactactg	cgaggaggac	ccggtgacgg	120
gcagttgtggg	caccacagggc	cgcgctgcga	acaaagcggc	tccccaggcc	agcggctgtg	180
acctcaatgtg	ctgtggggctg	ggctacaaca	cccaccagta	cgcccgcgtg	tggcagtgca	240
actgtaagtt	ccactgggtgc	tgtatgttca	agtgcacacac	gtgcagcgag	cgcacggang	300
atgtacacgt	gcaagtgcagc	ccggtgtgca	caccacccctc	ccgctgcgaag	tcagattgct	360
gggaggactg	gaccgttttc	aagctcgggg	ctccctggca	ggatgctgag	cttgtctttt	420
ctgctgagga	gggtactttt	cctgggtttc	ctgcaggcat	ccgtggggga	aaaaaaatct	480
ctcagagnc	tcaactattc	tgttccacac	ccaatgtcgs	tccaccctcc	cccagacaca	540
gccaggtgcc	ctcgcggct	ggagcgaagc	cttctgcagc	aggaactctg	gaccctctggg	600
cctcatcaca	gcaatattta	acaatttatt	cctgataaaa	ataatattaa	tttattttaa	660
taaaaagaat	tcttccaaaa	aaaaaaaaaa	aaaaaaacnt	cg		702



<210> 32  
 <211> 1142  
 <212> DNA  
 <213> Homo sapiens

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<400> 32
cggcacgagg aagaaatggc agagactgga atctctcttc atgaaaaaat gcagcccctt 60
aacttcagtt cgacagagtg cagctccctc tctccaccca ccacagtgat tctccttacc 120
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 <211> 928  
 <212> DNA  
 <213> Homo sapiens

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 <212> DNA  
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catctgtggc	ttaccacca	gatgtggtaa	cacctcccca	gtcgtgacag	ccccaaatgt	420
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 <211> 509  
 <212> DNA  
 <213> Homo sapiens

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<210> 38

<211> 598  
 <212> DNA  
 <213> Homo sapiens

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<210> 39  
 <211> 454  
 <212> DNA  
 <213> Homo sapiens

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 <212> DNA  
 <213> Homo sapiens

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 ggggt 425

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 <211> 2471  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (42)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1932)

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&lt;210&gt; 42

&lt;211&gt; 2659

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 42

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 <220>  
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 <222> (1626)  
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 <212> DNA  
 <213> Homo sapiens

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&lt;211&gt; 1107

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 47

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&lt;210&gt; 48

&lt;211&gt; 805

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 48

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 <212> DNA  
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<210> 52  
 <211> 1426  
 <212> DNA  
 <213> Homo sapiens

<400> 52  
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 <211> 1720  
 <212> DNA  
 <213> Homo sapiens

<400> 53  
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<210> 54  
 <211> 1117  
 <212> DNA  
 <213> Homo sapiens

<400> 54						
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<210> 55  
 <211> 1903  
 <212> DNA  
 <213> Homo sapiens

<400> 55						
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agaagactgt	aaataagata	ccaaaggcac	tatttttagct	atgttttttc	catcagaatt	1860
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<210> 56  
 <211> 1869  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (236)  
 <223> n equals a,t,g, or c

<400> 56						
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<210> 57  
 <211> 1259  
 <212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (171)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (251)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (342)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1186)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1196)

<223> n equals a,t,g, or c

<400> 57

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<210> 58

<211> 1186

<212> DNA

<213> Homo sapiens

<400> 58

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<210> 61
<211> 1197
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<212> DNA  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (10)  
<223> n equals a,t,g, or c

<220>  
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<223> n equals a,t,g, or c

<220>  
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<223> n equals a,t,g, or c

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<210> 62  
<211> 595  
<212> DNA  
<213> Homo sapiens

<220>  
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<223> n equals a,t,g, or c

<220>  
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<223> n equals a,t,g, or c

<220>  
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<222> (76)  
<223> n equals a,t,g, or c

<400> 62



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 <213> Homo sapiens

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<210> 65
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<212> DNA
<213> Homo sapiens

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<223> n equals a,t,g, or c

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<210> 66
<211> 3301
<212> DNA
<213> Homo sapiens

<220>

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<221> SITE  
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<220>  
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 <223> n equals a,t,g, or c

<220>  
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 <223> n equals a,t,g, or c

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<220>  
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<220>  
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&lt;210&gt; 67

&lt;211&gt; 1535

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 67

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1535

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 <212> DNA  
 <213> Homo sapiens

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 <223> n equals a,t,g, or c

<220>  
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<220>  
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 <211> 1292  
 <212> DNA  
 <213> Homo sapiens

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<210> 70
<211> 1031
<212> DNA
<213> Homo sapiens

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<220>
<221> SITE
<222> (980)
<223> n equals a,t,g, or c

```

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<400> 70
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gcagtggggt gcaagggctt tgtttctgcc tgctgaaag agagggtctt ggggctggag 720
atgagaacaa acaacgtctc ctctcagacaa tgaggcatte tgtcctcctg ctgccattct 780
tcactctcac tgaagccagc agctgtgtag agccagatgc cacaggcatc ctgcatctgt 840
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aaaaaaaaa a 1031

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<210> 71
<211> 855
<212> DNA
<213> Homo sapiens

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<220>
<221> SITE
<222> (852)
<223> n equals a,t,g, or c

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<220>

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<221> SITE  
 <222> (854)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (855)  
 <223> n equals a,t,g, or c

<400> 71  
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 ggcttcctgcg gcttcttgggt gccctgggttc atccctaagg gtctctaacc gggagttatc 180  
 attaccatgt tggtagactg ttcagtttgc tgctatctct tttggctgat tgcattctctg 240  
 gcccaactca accctctctt tggaccgcaa ttgaaaaatg aaaccatctg gtatctgaag 300  
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 agagatacgt tactctctcc ttggaatctg tggatttgaa gatggctcct gcctctccac 660  
 gtgggaatca gtgaagtgtt tagaaaactg tgcaagacaa acaagactcc agtgggggtg 720  
 tcagtaggag agcacgttca gagggaagag ccatctcaac agaatcgac caaacatata 780  
 tttcaggatg aatttcttct tcttgccatc ttttggaaata aatattttcc tectttctaw 840  
 rraaaaaaaa anann 855

<210> 72  
 <211> 1274  
 <212> DNA  
 <213> Homo sapiens

<400> 72  
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 gaaggcactg agatgggggg ccgtccaggc ggacacccgc agaaaatggag ctttctgttg 180  
 tctcttgccg tctggctgcc tcttgccctc tctgtgtctc tctttcttgg tctctccctc 240  
 tctctctctc agcctggctc tctctcttgg tgcacactta gttatttggg tgagcaatgg 300  
 aagtccaag gaactccctc tccagctctt ctgaatcttg ggacacagcc taataaggac 360  
 aaaaagttga aagacagcat agcaactcag ctacaggagc taccagagaa aatagcaac 420  
 tgaatgtgggt gtgttttttt tttttttaa ttgataaaaa agaattagaa gtgatgtcct 480  
 tttataaaat gccttctccc ccttcccgc taccagttct tctctcccc tttagagggg 540  
 gaaagtgtat aaacctacag ggttgtgagt ctgaaaagag gatccccctc acccccaccc 600  
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 gatatttctt gcagattgca gtctcttctg gcccaaacag gttaggttaga ctatcgctc 720  
 tggcaggctg cacccttttg taccacatgt ttctgaggtg tttaggattg ggttgggttt 780  
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 ttatactgc atttttatgg attattttgt aatgtgtgat tccgtctgct gaggaggttg 960  
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 ggcattggat gtggaggctg gcgacacacc ctgtgcctct ccaaggctgg gcgcgtggg 1080  
 cgtccagagt cctctgggtt ctccagatgc catctgccac ctcttggtta ggccttagcc 1140  
 agaagggagg gtgagggtag aagaaaagta ttccgaaga aaaaaagaa gaataatcat 1200  
 tgtactgaac tgtttttata ttttttaaa ttactattwa aaggtaaaaa aaaggggggg 1260  
 cccgttacc aatt 1274

<210> 73  
 <211> 688  
 <212> DNA  
 <213> Homo sapiens

<400> 73  
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 acggggcagc cggggcccca cccacgcac tgaagaggcc gcttgggctg ccatggccct 180  
 gaccttctctg ctgggtgctgc tcaccctggc cagctctgca caccggctga cagaaacttc 240  
 cgacgcgggg agagcatcta ctggggggccc acagcggaca gccaggacac agtggctgct 300  
 gtgctgaagg ggaggctgct gcagccctcg cgccgggtca agcgcgcgc cccgagaccc 360  
 ctctcccgcc cagccgggac agcggcccgag aaggcggagag ctcgagtgga cggcctggga 420  
 cctgccaactg tggcgctggc ctctccccc cgcccgagag ccgcgcactc tgcacactgg 480  
 accgcgcgcg gggcgctccc tggtggcgat ggccgcccac tggccggaga ctgcggggggc 540  
 ttctctctct gttggttget gaggggggcg ccaaggggag aaaaggagcc gcttctgctc 600  
 ccttggccaa aactccgttt ctaattaaat tatttttagt agaaaaaaa aaaaaaaa 660  
 aaaaaaaa aaaaaaaa aaaaaaaa 688

<210> 74  
 <211> 1890  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (1876)  
 <223> n equals a,t,g, or c

<400> 74  
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 agcaccctct tctctacttt gttccctttg tcatggctcg gaccctcca aggacagcag 180  
 caccaccttg tggagtacat gtaacggcca ctatgctgct tagaggaagc gctggccag 240  
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 ccaactgctg aggtggcaga gaaggagcgg gaggcactca gaactgaggg cgacaccatc 360  
 tccgggagag tggatcgctc ggagcgggag gttagactatc tggagaccca gaaccagct 420  
 ctgcccctgtg tagagtttga tgagaagggt actggaagcc ctgggaccaa aggcaaggga 480  
 agaaggaatg agaagtacga tatgggtgaca gactgtggct acacaactctc tcaagtga 540  
 tcaatgaaga ttctgaagcg atttggtggc ccagctggctc tatggaccaa ggatccactg 600  
 gggcaaacag agaagatcta cgtgttagat gggacacaga atgacacagc cttgtcttc 660  
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 ccttccctct ggttaggcac agggcagctg gtatatgggt gctttcttta tttgtctcg 780  
 caggctcctg gaagacctgg tggaggtggt gagatggaga acactttgca gctaatcaaa 840  
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 cctctatat tttagccaat ggcaatcaaa ttctttcagc tcttttgttt catacggac 1500  
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 gctctctcgc cccatgtcaa caaatttcag gctaaggatg ccccgacacc agggctctaa 1620  
 ccttgatgc gggcaggccc agggagcagg cagcagtggt cttccctcga gactgacttg 1680  
 gggaggagga aataggagga gacgtccagc ctctctcaat cctccctcca ctccctcca 1740  
 gtgtccctga gaacaggact ttctccacat tgttttgtat tgcaacattt tgcaataaaa 1800  
 ggaaaaatca ctgcataaaa aaaaaaaa aaaaaaacgg cagcaggggg 1860  
 ggtcccgtac ccaatngccc tcaatgcac 1890

<210> 75  
 <211> 1133



<212> DNA  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (1110)  
<223> n equals a,t,g, or c

<400> 75  
gccggtctga gtgcagagct gctgtcatgg cggcgctctt gtggggcttc tttccgctcc 60  
tgctgctgct gctgctatcg ggggatgtcc agagctcgga ggtgcccggt gctgctgctg 120  
agggatcggg agggagtggg gtcggcatag gagatcgctt caagattgag gggcgctgag 180  
ttgttccagg ggtgaagcct caggactgga tctcggcggc ccgagtgcgt gtacagcgag 240  
aagagccagt cggtttccct aagacagatg ggagtttgtt ggttcatgat atacctctg 300  
gatcttatgt agtgggaagt gtatctccag cttacagatt tgatcccggt cgagtggata 360  
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ctttattgtt atttgtgctt ctgcctaaag tggtaaacac aagtgatcct gacatgagac 600  
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agtttcattgac aagactcttc tcttcaaaat catctggcaa atctagcagc ggcagcagta 720  
aaacaggcaa aagtggggct ggcaaaaagga ggtagtccagg ccgtccagag ctggcatttg 780  
cacaaaacag gcaacactgg gtggcatcca agtcttggaa aacgtgtgta agcaactact 840  
ataaacttga gtcactccga cgttgatctc ttacaactgt gtatgttaac tttttagcac 900  
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tattgatgtc actgaattaa ttacagtgtc ctatagaaaa tgccattaat ttttagattatg 1020  
aactactata cattatgtat attaatataa acatcttaac ccagaaaaaa aaaaaaaraa 1080  
aactcgaggg ggggcccgtt acccaatttn ccaaatggga gtcgtaaaaa atc 1133

<210> 76  
<211> 585  
<212> DNA  
<213> Homo sapiens

<400> 76  
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tggctgggag ctcggcccat ccacctcttg gggtagctgc ctctctctct cctgtgggtgt 180  
cccttccctc tccatgtgct tcgggtgtta gtgggtgata tttctctctc cagacatggg 240  
gcacacgccc caagggaacat gatcctctcc ttagtcttag ctcactggggc tctttataag 300  
gagttggggg gttagggcag gaaatgggaa ccgagctgaa gcagaggctg agtttagggg 360  
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tgcccttccc agggaaaaag tgtcgtctcc ccgacccctc cgtgggtgctt ggtgtgtgat 480  
gctgtgtctg tatattctat acaaaagttac ttgtcctttc cctttgtaaa ctacatttga 540  
catgggattaa accagataaa acagttaaaa aaaaaaaa aaaa 585

<210> 77  
<211> 577  
<212> DNA  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (561)  
<223> n equals a,t,g, or c

<400> 77  
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gggtccacag cttcctcttg atggggacat tctgttcagt ttcccagaca gtccctggcc 120  
agctggatgc actgctggct ttcccaggcc aagtggtctca actctcctgc acgtcagcc 180

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ccgatcgatt	ctcggcagcc	aaggatgagg	cccacaatgc	ctgtgtctctc	accattagtc	360
ccgtgcagcc	tgaagacgac	gcggattact	actgctctgt	tggtcagcgg	tttagtccct	420
aggggtgggg	tgtgagatgg	gtgcctcccc	tctgcctccc	atcttctgccc	ctgaccttgg	480
gtccctttta	aactttctct	gagccttgct	tcccctctgt	aaaatggggt	aataatattc	540
aacatgtcaa	caacaaaaaa	naaaaaawaaa	aactcga			577

<210> 78  
 <211> 2278  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (956)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1062)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1290)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1442)  
 <223> n equals a,t,g, or c

<400> 78						
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ccgcgcggagc	agagccgggt	ccagcccatg	accgcctcca	actggacgct	gggtgatggag	180
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cttcacaaact	atttcacagt	gactcttgga	attcctgctt	gggtgtctta	tgctcttttt	600
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tggtttctatg	tgccacttcc	aaggcattta	tctgagcggt	ctgagcagaa	tcggagatca	720
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agaagtgagg	ccaatgatca	ggggccccca	ggagaggacg	gtgtgacccg	ggaggnaagt	960
agagcctgaag	gaggctgaag	aggcatctc	tgagcaaccc	tgcccagctg	acacagaggt	1020
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atgtagcggt	ttcaagaata	caacacaaaa	caatatgtca	gcttcccttt	ggcctgcagt	1140
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tttatttttg	tcaaatgtca	ggaacacatc	ggcaccacag	tgcatgaaaa	atctttcaaa	1560
gctagaanaat	gaaaggccct	tgggtataga	gagcagctca	gaagtcatcc	cagccctctg	1620

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gtcttgcagc	tacaaggtag	tcttgtgaag	aaaagtgtga	tactgttttg	ttttcatctc	2040
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cttcagtgat	gtgcttttgg	tgaagaattt	aatgaactcc	agtacctgaa	agtgaagaat	2160
ttgattttgt	ttccatcttc	tgtaatcttc	caaagaatta	tatcttttga	aatctctcaa	2220
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<210> 79  
 <211> 1143  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (1049)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1050)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1051)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1103)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1104)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1110)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1143)  
 <223> n equals a,t,g, or c

<400> 79						
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ggn						1143

<210> 80  
 <211> 557  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (553)  
 <223> n equals a,t,g, or c

<400> 80						
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cccagctccac	catgatccat	ctgggtccaca	tcctcttctc	gtctttgtct	ccagtggtctg	180
cagctcagac	gactccagga	gagagatcat	cactccctgc	cttttaacct	ggcacttcag	240
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gccccgccca	agaagatgg	aaagtctaca	tcaacatgcc	aggcaggggc	tgacctctct	420
gcagcttgga	cctttgactt	ctgacctctc	catcctggat	gggtgtgtgt	ggcaccaggaa	480
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aaaaaaaaaa	aantcga					557

<210> 81  
 <211> 795  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (772)  
 <223> n equals a,t,g, or c

<400> 81						
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gcgctgcggg	caggcggtga	ggctccagca	tgtscttacg	ggcaagaacy	tgacacgca	360
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gaatgttgtg	ctatg					795

<210> 82  
 <211> 1324  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (1)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (597)  
 <223> n equals a,t,g, or c

<400> 82  
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 gggccactgt cgtccagtg catgcagttt gtcaacgtgg gctacttctc catgcagcc 360  
 ggcgttgggt tctttgtctc tggtttctgt ggctgctatg gtgctaagac tgagagcaag 420  
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 gctgtggtgc ccttgggtgt caccacaatg gctgagcact tcttgactgt gctggttagtg 540  
 cctgccatca agaaagatta tggttccag gaagacttca ctcaagtgtg gaacacnacc 600  
 atgaagggcg tcaagtgtgt tgggttcacc aactatacgg attttgaggga ctacccctac 660  
 ttcaaaagaga acagtgcctt tccccattc tgttgcaatg acaacgtcac caacacagcc 720  
 aatgaaacct gcaccaagca aaagcctcac gacaaaaaag tagaggggtg cttcaatcag 780  
 ctttgtatg acatccgaac taatgcagtc accgtgggtg gtgtggcagc tggaaattggg 840  
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 ccagtgtctc actgggggat gagagaaagg cattttatag cctgggcata agtgaataca 1260  
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 taaa 1324

<210> 83  
 <211> 1494  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (612)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (620)  
 <223> n equals a,t,g, or c

<400> 83  
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 tcttcattgc tgaggttgca gctgctgttg tcgccttggt gtacaccaca atggtgagac 180

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cacttggggc	agaaatggac	tgcctttctt	gctccagact	tggggctaga	tagggaccac	1200
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&lt;210&gt; 84

&lt;211&gt; 1285

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (644)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (663)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (1280)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 84

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ggggctcaga	rtctgtgggc	tgggcccarg	gccgtggaa	caaccagagc	atcgatttta	240
accataattt	tgtctgamtct	aacacaccac	tgtgggaagc	acaggacgag	gggaagggtgc	300
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cttaaaaaaa	aaaaaaaaaa	aaaaa				1285

<210> 85  
 <211> 394  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (32)  
 <223> n equals a,t,g, or c

<400> 85	
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	394

<210> 86  
 <211> 1925  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (54)  
 <223> n equals a,t,g, or c

<400> 86	
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aagaacaagc	tgggtgtgct gggcccccagc cagctgcagc ggtaccggca ggagctggcc 360
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ctcga						1925

<210> 87  
 <211> 1818  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (13)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (16)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (18)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (237)  
 <223> n equals a,t,g, or c

<400> 87						
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<210> 88  
 <211> 539  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (395)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (396)  
 <223> n equals a,t,g, or c

<400> 88	
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<210> 89  
 <211> 855  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (103)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (767)  
 <223> n equals a,t,g, or c

<220>  
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 <222> (831)  
 <223> n equals a,t,g, or c

<400> 89	
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aaactgcgca	actgcagccg cctggcctgc ctgacagcgg agctccgttg cacgtgagc 300
gatgactgca	ttccactcac gtggcgctgc gacggccacc cagactgtcc cgactccagc 360

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gacgagctcg gctgtggaac caatgagatc ctcccggaag gggatgccac aaccatgggg 420
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gtgaacctcg gagagtgtcc cctctgtcgg gaatgccaca tccctcctctg ccggagacca 540
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<210> 90
<211> 628
<212> DNA
<213> Homo sapiens

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<220>
<221> SITE
<222> (593)
<223> n equals a,t,g, or c

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<400> 90
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cagattcaca aggacttaat ctgggttgcc gcgggaccct gtccagatgag catgctggag 180
tgatatctgt tctagcccgag caagcagcta agctaaccct tgaccgccact gatattcctg 240
tggtgtgtct agaatcagat aatgggaaca ttatgatcca gaaacacgat ggcatcacgg 300
tggcagtgca caaaatggcc tcttgatgct catatctggt cttcagcagc ctgtcatagg 360
aactggatcc tacctatggt aattaccctta tagaactact aaagtctcag tagttaggcc 420
attcatttaa tgtgcattag gcacttttct gtttatttaa gagtcaattg ctttctaatt 480
ctctatggac cgcactatcaa gatatttagta agaaaggatc atgttttgaa gcagcaggtc 540
caggtcactt tgtatataga attttgcgtt attcaataaa tctgtttgga ggnaaaaaaaa 600
aaaaaaaaaa aamtgagggg ccgaagct
628

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<210> 91
<211> 1053
<212> DNA
<213> Homo sapiens

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<220>
<221> SITE
<222> (653)
<223> n equals a,t,g, or c

```

```

<220>
<221> SITE
<222> (1044)
<223> n equals a,t,g, or c

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```

<400> 91
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caccgggatg ctggagatct ctggttcccc ggggagctgt agagcttcca ggatgcccat 540
gtggagcaca gcactccag gcacctcttg gaaggagaaa tccctctccc acccacttcc 600
atccttctcc tcttggcctg catctttctc atcaagatgc tagcagccag cgnccctctgg 660

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aaaaaaaaaa	aaaaaaaaaa	aacncgagg	ggg			1053

<210> 92  
 <211> 1075  
 <212> DNA  
 <213> Homo sapiens  
 <220>  
 <221> SITE  
 <222> (1060)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1070)  
 <223> n equals a,t,g, or c

<400> 92						
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ctgcctgaac	actgtctctc	ctggaccctg	gaagcaggga	ctggttgagg	gagtgggggg	960
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<210> 93  
 <211> 2492  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (1976)  
 <223> n equals a,t,g, or c

<400> 93						
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<210> 94  
 <211> 3058  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (3033)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (3048)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (3056)  
 <223> n equals a,t,g, or c

<400> 94  
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&lt;210&gt; 95

&lt;211&gt; 1099

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (64)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 95

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60

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aaaaaaaaac gggggggggg 1099

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<210> 96
<211> 1580
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (1443)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (1578)
<223> n equals a,t,g, or c

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cctgctcttc ctcatattca catcagtgat gtttgggacc caggtgcact ccatctgcac 180
agatgagacg ggaatagaaa aattgaaaaa ggaagagaga agatggggcta aaaaaacaaa 240
atggatgaac atgaagccg tttttggcca cccctctctc ctaggctggg ccagccctct 300
tgccacgcca gaccaaggga aggcagaccc gtaccagtat gtggctctga ggcaccagac 360
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1580

<210> 97  
 <211> 678  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (676)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (678)  
 <223> n equals a,t,g, or c

<400> 97  
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 <211> 1253  
 <212> DNA  
 <213> Homo sapiens

<220>  
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 <222> (158)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (181)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (663)  
 <223> n equals a,t,g, or c

<400> 98  
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&lt;210&gt; 99

&lt;211&gt; 447

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 99

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tgagaagctg	aaaaaagtkg	gattcatt				447

&lt;210&gt; 100

&lt;211&gt; 611

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 100

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aaaaaaaaaa	a					611

&lt;210&gt; 101

&lt;211&gt; 609

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 101

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aatgttctg                                     609

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<210> 102
<211> 1770
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (524)
<223> n equals a,t,g, or c

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<400> 102
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<210> 103
<211> 1832
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (1775)
<223> n equals a,t,g, or c

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<220>
<221> SITE

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<222> (1786)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1788)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1820)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1825)  
 <223> n equals a,t,g, or c

<400> 103  
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<210> 104  
 <211> 2237  
 <212> DNA  
 <213> Homo sapiens

<220>  
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 <222> (605)  
 <223> n equals a,t,g, or c

<220>  
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 <222> (2215)  
 <223> n equals a,t,g, or c

<400> 104

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 <212> DNA  
 <213> Homo sapiens

<400> 105

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&lt;210&gt; 106

&lt;211&gt; 1712

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 106

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&lt;210&gt; 107

&lt;211&gt; 1969

<212> DNA  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (890)  
<223> n equals a,t,g, or c

<400> 107  
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<210> 108  
<211> 1734  
<212> DNA  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (189)  
<223> n equals a,t,g, or c

<220>  
<221> SITE  
<222> (761)  
<223> n equals a,t,g, or c

<400> 108  
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<210> 109
<211> 2003
<212> DNA
<213> Homo sapiens

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<220>
<221> SITE
<222> (211)
<223> n equals a,t,g, or c

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<220>
<221> SITE
<222> (768)
<223> n equals a,t,g, or c

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<220>
<221> SITE
<222> (1025)
<223> n equals a,t,g, or c

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<220>
<221> SITE
<222> (2003)
<223> n equals a,t,g, or c

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<400> 109
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aaaaaaaaatc gggggggggcc cgn 2003

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<210> 110
<211> 1320
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (1208)
<223> n equals a,t,g, or c

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<400> 110
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<210> 111  
 <211> 1962  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (21)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (56)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1006)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1077)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1921)  
 <223> n equals a,t,g, or c

<400> 111  
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&lt;210&gt; 112

&lt;211&gt; 1785

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (924)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (1749)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (1761)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 112

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cggggagctgc	aggcatttgc	gcctgggctt	cggagcgtac	cgcagggcct	gagcctttga	120
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ctgcccaggc	ggcggcgccg	gcgaggagg	cgaccagaaa	gatrccccgc	ctgcgccccg	240
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caagaatttt	gattgggaac	agaatacaag	cagctgaakc	agatgawtta	ctaagcaaca	1620
aagatcctgt	ttttatacaa	atatccttag	tacaaaaaca	aaaraaggaa	aaactgtaggg	1680
gggagtaagt	tgctaagtaa	gcagaattgc	ctccaaaaa	agttgtttct	agttactcct	1740
ttccgggtng	ggatcttttag	nttcgggtat	gttcctc			1785

&lt;210&gt; 113

&lt;211&gt; 1842

&lt;212&gt; DNA

## &lt;213&gt; Homo sapiens

## &lt;400&gt; 113

```

ggagcctctc ttgcaacttc tgcaccgcgg gccaccgcgg gccgcctgat cccgcagagg      60
aagtcgcccgc cgtggagcga tgaccgccgg cggtcggggc gggcgccggg ggtcgccaca      120
gccgcgcgcgc ctctctgtgc tgctgtgtct gcmgctgttg ttagtcacgc cggagccggc      180
gaacactcga ggaagtctact atgcaactgc atactggatg cctgctgaaa agacagtaca      240
agtcaaaaat gtaatggaca agaattggga cgcctatggc ttttacaata actctgtgaa      300
aaccacaggc tggggcatcc tggagatcag agctggctat ggctctcaaa ccttgagcaa      360
tgagatcatc atgtttgtgg ctggcttttt gaggggttac ctactcgccc cacacatgaa      420
tgaccactac acaaacctct accccagcgt gatcacgaaa ccttcacata tggataaagt      480
gcaggatttt atggagaagc aagataaagt gaccgggaaa aatatcaaga aatacaagac      540
tgattcattt tggagacata caggctatgt gatggcacia atagatggcc tctatgtagg      600
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cagcctaaag gtttttaaga gatgggacat gggacattgc tccgctctta tcagggttct      780
tccgtgattt gagaacatcc tttttgctca ctcaagctgg tacacgtatg cagccatgct      840
caggatataa aaactactgg acttcaactc catagataaa gataccagca gtatgcgct      900
ctctttcagc agttaccagg ggtttttgga gtctctggat gatttttaca tcttagcag      960
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atgtggagag aaatctctac atatgtagaa tattctgaac aaactgatgt tctacggaaa      1260
ggatatggcg cctcctacaa tggttcctttc catgaaaaaa tctacaactg gagtggctat      1320
ccactgttag ttcagaagct gggctgggac ctactgtatg atttagctcc acgagccaaa      1380
attttccggc gtgaccaagg gaaagtgaact gatccggcat ccatgaaata tatcatgcga      1440
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cgtgaggacc tgaactcacc taacccaagt cctggagggt gttatgacac aaaggtggcg      1560
gatatcacc tagcatctca gtacacatcc tattgcacaa gtggtccacg ataccaggt      1620
ggcctccctg tttttcgtg ggaccgtttc aacaaaactc tacatcaggc catgscagag      1680
gtctacaact ttgattttat taccatgaaa ccaattttga aacttgatat aaaatgaagg      1740
agggagatga cggactagaa gactgtaaat aagataccaa aggcactatt ttagctatgt      1800
ttttcccatc agaattatgc aataaaaatat attaatgtgt ca      1842

```

## &lt;210&gt; 114

## &lt;211&gt; 1960

## &lt;212&gt; DNA

## &lt;213&gt; Homo sapiens

## &lt;220&gt;

## &lt;221&gt; SITE

## &lt;222&gt; (563)

## &lt;223&gt; n equals a,t,g, or c

## &lt;400&gt; 114

```

gaattcgcca cgagcttctc cgcgccccag cgcgcggctg ccagcttttc gggggcccca      60
gtcgcaccca gcgaagagag cgggcgccgg acaagctcga actcgcgcgc cctcgccctt      120
ccccgcctcc gctccctctg cccccctcgg gtgcgcgcgc cagcatgctg caggggcctt      180
gtctcgtcgt gctgctcttc ctgcctcgc actgctgcct gggctcgggc cgcgggctct      240
tctcttttgg ccagcccgac ttctcctata agcgcagmaa ttgcaagccc atccccgtca      300
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acgagaccat gaaggaggtg ctggagcagg ccggcgcttg gatcccgctg gtcatgaagg      420
agtgaccaccc ggacaccaag aagttcctgt gctcgtcttt cgcccccctc tgctcgtatg      480
acctgacgca gaccatccag ccatgccact cgctctcgtg gcaggtgaa gaccgtcgtg      540
ccccggtcat gtccgccttc ggnntccctt ggcgcgacat gcttgagtgc gaccgtttcc      600
ccaggagcaa cgaactttgc atccccctcg ctacgcagca ccacctcctg ccagccacgg      660
aggaagctcc aaaggtatgt gaagcctgca aaaaaaaaaa tgatgatgac aacgacataa      720
tgaaaacgct ttgtaaaaat gattttgac tgaaaaataa agtgaaggag ataacctaca      780
tcacccgaga taccaaaaac atcttgga gaccatttac aagctgaa cgtgaaacg      840
gtgtgtccga aagggaacct aagaaatcgg tgctgtggct caaagacagc ttgcagtga      900

```

```
<210> 116
<211> 790
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (360)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (750)
<223> n equals a,t,g, or c

<220>
<221> SITE
<222> (753)
<223> n equals a,t,g, or c
```

```

<400> 116
gtggggagggg ggcggagcaa agccgcgcct ctgggtgggc gggtcgggcc gtccagggtcc 60
ctgacttgaa ccttcccggg cccagccct caacaggagg cgcagaaaat cttcaaagcc 120
aaccacccca tggagcgaga agttactaag gccaaagctt tgggggtttgg ctctgctctc 180
ctggacaatg tggaccccaa ccttgagaac ttctgtgggg cggggatcat ccagactaaa 240
gccttcgagg tgggctgtct gcttcggctg gagcccaatg cccaggccca gatgtaccgg 300
ctgaccctgc gcaccagcaa ggagcccgct tccggtcacc tgtgtgagct gctggcacan 360
agtctctgagc cctggaactct gccccggggg acttgggccgg cactggggcg ccccttggac 420
tgaggcagtt ttggtggatg ggggacctcc actggtgaca gagaagacac cagggtttgg 480
gggatcgctt ggaactttct cgggcctttt gtatttttat tttgtttcat ctgctgctgt 540
ttacattctg gggggttagg gggagtcctc cctccctcct ttccccccca agcacagagg 600
ggagaggggg cagggaagtg gatgtctct cccctccac cccacctgtg ttagccct 660
cctacccctt cccatccag gggctgtgta ttattgtgag cgaataaaca gagagacgtt 720
aacagcccca tgtctgtgtc catcaccan tgnataggtag tcaaaagaat ggggtgaggg 780
catgcagagt

```

```

<210> 117
<211> 776
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (750)
<223> n equals a,t,g, or c

```

```

<400> 117
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caacaggagg cgcagaaaat cttcaaagcc aaccacccca tggagcgaga agttactaag 180
gccaaagctt tgggggttgg ctctgctctc ctggacaatg tggaccccaa ccttgagaac 240
ttctgtgggg cggggatcat ccagactaaa gccctgcagg tgggctgtct gcttcggctg 300
gagcccaatg cccaggccca gatgtaccgg ctgacctgc gcaccagcaa ggagcccgct 360
tcccgtaacc tgtgtgagct gctggcacag agttctgagc cctggactct ccccggggg 420
atgtggccgg cactggcgag ccccttggac tgaggcagtt ttggtggatg ggggacctcc 480
actggtgaca gagaagacac cagggtttgg gggatgcctg ggactttct cgggctttt 540
gtatttttat tttgtttcat ctgctgctgt ttacattctg gggggttagg gggagtcctc 600
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ccctccca cccacctgt ttagccctc cctacccct cccatccag gggctgtgta 720
ttattgtgag cgaataaaca gagagacgcn taaaaaaaaa aaaaaaaat tgaggg 776

```

```

<210> 118
<211> 453
<212> DNA
<213> Homo sapiens

```

```

<400> 118
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aaatgagaa aggagtggtc tgggcccag taaatgatcc tcccttgaaa ggaggaacag 120
cttcatcat ttgttcagc taagccttg gatctggtg gatctgttg taagcattgg 180
gaaagatctc ataagtaatg ttttatgttc ttctgctc tcyctttc tttgttttgg 240
cttggtgggt gtgtttgkgt ttgttaactg gaaaaattgt ataagccagt tgtcycaak 300
tttwaaaac gaattagaaa aaccataaaa tcyctgtgcc yatgcacatk gtcccygttt 360
tgtgaaaca ttaaagggtg aataaaaagg aaggagaaac gtcaataatg tgcataaat 420
atattctgag ttctagagaa attaatgacc aag

```

```

<210> 119
<211> 2016
<212> DNA

```

<213> Homo sapiens

<220>

<221> SITE

<222> (152)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (441)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (697)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1998)

<223> n equals a,t,g, or c

<400> 119

```

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gcaggacgcg cggtctggaac ccccaggccc cgctgctcac agaccgggac tccgcctccg      120
gtccccgaggg gcgtggcgag gcgctgcggg ancccaacag gatgccttcc gtgccttcca      180
tcaagatctc aatttttgtgc gcaattccta cagccccctgt tgattggaga gctggctccg      240
gaagaaccca gccakgatgg acccctgaat gcgcatggtc gaggacttcc gagccctgca      300
ccaggcagcc gaggacatga agctgtttga tggcagtcoc acccttcttg ctcttctact      360
gggccacatc ctggccatgg aggtgctggc ctggctcctt atctacatca tgggtcctgg      420
ctgggtgccc agtgccctgg nccgcttcca tcttgcccat ctctcaggct cagtctctgg      480
gtctgcagca tgacctgggc catgctccat ctccaagaag tccttggtgga accacgtggc      540
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cttcacgacac cagcccaagc ccaacatctt ccacaaagac ccagacgtga cggtagggccc      660
cgytttcttc ctggggggagt catccgtcga gtatggncaa gaagaaacgc agataacctac      720
ctacacaacca gcagcacctg tactttcttc tgatcgggcc gccgctgtcc accctggtga      780
actttgaagt ggaanaatctg gcgtacatgc tgggtgtgcat gcagtgggag gatttgcctc      840
gggcccggcag ctcttatgcc cgcttcttct tatctacct ccccttctac ggcgtccctg      900
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cgacaggtga cccccactgc agccccccac cagagcttcc cttttcccg tctgcagaatg      1020
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gcagagggggc gatggccaca atcctattgt acagataaag aagtcaggc cayttggggg      1260
cagyttctct tccagctctc actcagggtg ccttaagtgg tgagctggac ctagggcagt      1320
gccgagcytc cccacagggt cctggaaaag cactggttgc gctgggttgc tcagctggca      1380
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gccactgcga acgtggagcc ctcaactttc accaaactgg tcagcgggca cctcaacttc      1500
cagatcgagc accactctct ccccaggatg ccgagacaca actacagccc ggtgcccccg      1560
ctggtcaagt cgctgtgtgc caagcacggc ctcagctacg aatgaagccc ttccctaccg      1620
cgctggtgga catcgtcagc tcctgaaga agtctggtga catctggtgc gacgctacc      1680
tccatcagcg aagggcaacac ccaggcgggc agagaagggc tcagggcacc agcaaccaaag      1740
ccagccccgg gcgggacaga cccccccamc cctccactgg ccagctctgg ggtgccttcg      1800
ctgcctctct ggtgactgtt tcttccccct ggccccctca catgtgtatt cagcagccct      1860
atggccttgg ctctgggccc gatgggacag gggtagaggg aaggtgagca tagcacattt      1920
tcttagagcg agaattgggg gaaagctggt atttttatat taaaatacat tcagatgtaa      1980
aaaaaaaaaa aaaaaaanct cgaggggggg ccccg      2016

```

<210> 120

<211> 2136

<212> DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 120

```

ggggacggag cgcgtgtcaa ctctccaaact cagctcagct gatcggttgc cgcgcgcgcc 60
gccgcgcagat tctggaggcg aagaacgcga agctgagaac atggcagctta atatcgcccc 120
actcgcgcgc tgggacgatt tcttcccggg ttcgcgagtc cggagctcag 180
ggacattttcc aaatgggaaca accgcgtagt gaggcaacctg ctctattacc agaccaacta 240
cttgggtggtg gtgcgcatga tgatttccat tgtgggtttt ctgagtcctc tcaacatgat 300
cctggggagga atcgtgggtg tgctggtggt caccaggggtt gtgtggggcag cccacaataa 360
agacgtcctt cgcggagatga agaagcgcta cccacgacg ttcgttatgg tggcatggtt 420
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ttttctcttg ctgttgatgt ttatccatgc atcgttgaga cttcggaacc tcaagaacaa 540
actggagaat aaaaatggaag gaattagggtt gaagaggaca ccgatgggca ttgtcctgga 600
tgccctagaa cagcaggaag aaggcatcaa cagactcact gactatatca gcaaatgtga 660
ggaataaaca taacttacct gagctagggt tgcagcagaa attgagttgc agcttgccct 720
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gtttcgtttt taactggaac atttagaaga aaggaaatga atgtgcattt tatatttcc 1560
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tctgtatgtc ctagaataag aagcaatgat gtgctgcttc tgattttctc tgcattttaa 1980
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catggtctag aatctgtacc cttaccacac tatgaagaat aaaattgatt aaaggttaaa 2100
aaaaaaaaaa aaaaamwagg gggggccggt wcccgag 2136

```

&lt;210&gt; 121

&lt;211&gt; 219

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 121

```

gccctagat ctgggcagct gtgcatggag atagccagag gaaacatttt ttttcttaat 60
grattgtgga ccacattttg ttgttcttgc ctccatttat ccgtgcscta ttgcatcct 120
ggttttcttc acagtagtgt atgtaaatgt ttgtttgtcc ttgtcgttct cagtagaatt 180
ggttctgtaa acgaaacctg gtctctgtaat ttcagtata 219

```

&lt;210&gt; 122

&lt;211&gt; 1686

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (622)

&lt;223&gt; n equals a,t,g, or c

<400> 122  
 gctggagatt cacattttac ctgattgcct tcattgccgg catggccgtc atttgtggata 60  
 aaccctgggt ctatgacatg aagaaagttt gggagggata tcccatacag agcactatcc 120  
 ctcccccagta ttgggtactac atgatttgaac ttctctteta ctgttccctg ctcttcagca 180  
 ttgcctctga tgtcaagcga aaggatttca aggaacagat catccaccat gtgtccacca 240  
 tcattctcat cagcttttcc tgggttgcca attacatccg agctggggact ctaatcatgg 300  
 ctctgcata ctcttccgat tacctgctgg agtcagccaa gatgttttaac tacgctggat 360  
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 gaagatgaac gcawgcrctg gnaagaaaca gagagctcag agggggaggga ggctgcagct 660  
 gggggaggag caaagagccg gccctatgcc aatggccacc ccactctcaa taacaacctat 720  
 cgtaagaatg actgaaccat tattccagct gccctccaga ttaatgcata aagccaagga 780  
 actaccvcygc tccctgcgct atagggtcac tttaagctct ggggaaaaag gagaaaagta 840  
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 ctaaccagcc tatccccag tagggggagc ttggttatat tctgttagag ggggacggctc 960  
 gtattttctt cccctaccgc caagtcatcc ttctactgc ttttgaggcc ctccctcagc 1020  
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 <212> DNA  
 <213> Homo sapiens

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<210> 124  
 <211> 1804  
 <212> DNA  
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 <222> (550)  
 <223> n equals a,t,g, or c

<400> 124  
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 <211> 1282  
 <212> DNA  
 <213> Homo sapiens

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 <222> (8)  
 <223> n equals a,t,g, or c

<220>  
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 <223> n equals a,t,g, or c

<220>  
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 <222> (1277)



<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (1282)

<223> n equals a,t,g, or c

<400> 125

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<210> 126

<211> 1296

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (803)

<223> n equals a,t,g, or c

<400> 126

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cccgggaatt	cccggaccgg	tactgtcagg	tctaac			1296

&lt;210&gt; 127

&lt;211&gt; 737

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (5)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (111)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (471)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (491)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (716)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (735)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 127

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&lt;210&gt; 128

&lt;211&gt; 1925

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 128

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<210> 129

<211> 2713

<212> DNA

<213> Homo sapiens

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<220>

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<222> (444)

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<220>

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<220>

<221> SITE

<222> (577)

<223> n equals a,t,g, or c

<400> 129

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<210> 130  
 <211> 1011  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (357)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (516)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (985)  
 <223> n equals a,t,g, or c

<400> 130  
 agaggacggt gtgaccggg aggaagtaga gcctgaggag gctgaagaag gcatctctga 60  
 gcaaccctgc ccagctgaca cagagggtgtt ggaagactcc ttgaggcagc gtaaaagtca 120  
 gcattgtgac aagggactgt agatttaagt atgcgttttc aagaatacac accaaaacaa 180  
 tatgtcagct tcctcttggc ctgcagtttg taccaaatcc ttaattttty ytgaatgagc 240  
 aagctctctc taaaagatgc tctctagtca ttgtgtctca tggcagtaag cctcatgtat 300  
 actaaggaga gtcttccagg tgtgacaatc aggatataga aaaacaaacg tagtgnttgg 360  
 gatctgtttg gagactggga tgggaacaag ttcattttact taggggtcag agagtctcga 420  
 ccagaggagg ccattcccag tcttaatacag caccctccag agacaaggct gcaggccctg 480  
 tgaatgaaa gccaaagcagg agccttggct ctgagncatc cccaaagtgt aacgtagaag 540  
 ccttgcattc ttttcttgtg taaagtattt atttttgtca aattgcagga aacatcaggc 600  
 accacagtgc atgaaaaatc tttcacagct agaaattgaa agggccttgg gtatagagag 660  
 cagctcagaa gtatcccag cctctgtaat ctctctgtgt atgttttatt tottaccttt 720  
 aatttttcca gcatttccac catgggcatt caggctctcc acactcttca ctattatctc 780  
 ttgtgtcagag gactccaata acagccagggt ttacatgaac tgtgtttgtt cattctgacc 840  
 taaggggttt agataatcga taaccaaac ccttgaagct gtgactgcca aacatctcaa 900  
 atgaaatggt gtrgcatca gagactcaaa aggaagtaag gattttacaa gacagattaa 960  
 aaaaaaattg ttttgtccaa aaaaanaaaa aaaaaaactc gaagggggggg c 1011

<210> 131  
 <211> 2278  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (956)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1062)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1290)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1911)  
 <223> n equals a,t,g, or c

<400> 131  
 gtaattcggc acgaggcgcc caacatggcg ggtggggcgt gggggccgca sctaacggcg 60  
 ctctctggcg cctggatcgc ggtgtgtggc gcgacggcag gccccgagga ggccgcgctg 120  
 ccgcggcgag agagccgggt ccagcccatg accgcctcca actggcagct ggtgatggag 180  
 ggcgagtggg tgctgaaatt ttacgcccga tgggtgtccat cctgccagca gactgattca 240  
 gaattgggag cttttgcaaa gaattgtgaa atacttcaga tcagttgggg gaaggtagat 300  
 gcatctcaag aaccaggttt gagtggccgc ccaactctcc agcatctttt 360  
 catgcaaaag atgggatatt ccgcggttat cgtggcccgag gaactcttga agacctgcag 420  
 aattatatct tagagaagaa atggcaatca gtccagcctc tgactgggtg gaaatccccg 480  
 gctctctcaa cgatgtctgg aatggctgggt ctttttagca tctctggcaa gatattggcat 540  
 ctccacaact atttcacagt gactcttggg attcctgctt ggtgttctta tgtcttttct 600  
 gtcatagcca ccttggtttt tggccttttt atgggtctgg tcttgggtgt aatatcagaa 660

tgtttctatg	tgccacttcc	aaggcattta	tctgagcggt	ctgagcagaa	tcggagatca	720
gaggaggctc	atagagctga	acagttgcag	gatgcggagg	aggaaaaaga	tgattcaaat	780
gaagaagaaa	acaaagacag	cctttagatg	gatgaagaag	agaaagaaga	tcttggccgat	840
gaggatgga	cagaggaaga	agaggaggag	gacaacttgg	ctgctgggtg	ggatgaggag	900
agaagtggag	ccaatgatca	ggggccccc	ggagaggacg	gtgtgacccg	ggaggnaagt	960
agagcctgag	gaggctgaag	aaggcatctc	tgagcaaccc	tgcccacgtg	acacagaggt	1020
ggtggaagac	tccttgaggc	agcgtaaaa	tcagcatgct	gncaagggac	tgtagattta	1080
atgatcgctt	ttcaagaata	cacacaaaa	caatatgtca	gcttcccttt	ggcctgcagt	1140
ttgtaccaaa	tccttaattt	ttcctgaatg	agcaagcttc	tcttaaaaa	tgctctctag	1200
tcatttggct	tcattggcagt	aagcctcatg	tatactaagg	agagtcttcc	aggtgtgaca	1260
atcaggatat	agaaaaacaa	acgtagtgtt	tgggatctgt	ttggagactg	ggatgggaac	1320
aagttcattt	acttaggggt	cagagagtct	cgaccagagg	aggccattcc	cagtccta	1380
cagcaccttc	cagagacaag	gctgcaggcc	tgtgaaatga	aagccaagca	ggagccttgg	1440
ctctgaggca	tcocccaaagt	gtaacgtaga	agccttgcat	ccttttcttg	tgtaaagtat	1500
ttatttttgt	caaatgtcag	gaaacatcag	gcaccacagt	gcatgaaaa	tcctttcacag	1560
ctagaaattg	aaagggcctt	gggtatagag	agcagctcag	aagtcatccc	agccctctga	1620
atctcctgtg	ctatgtttta	tttcttacct	ttaatttttc	cagcatttcc	accatgggca	1680
ttcaggctct	ccacactctt	catcattatc	tcttggctcag	aggactccaa	taacagccag	1740
gtttacatga	actgtgtttg	ttcattctga	cctaaggggt	ttagataatc	agtaaccata	1800
acccttgaag	ctgtgactgc	caaacatctc	aaatgaaatg	ttgtrgccat	cagagactca	1860
aaaggaagta	aggattttac	aaaaaaaat	tggtttgttc	naaaatatag		1920
ttgttgttga	ttttttttta	agttttctaa	gcaatatattt	tcaagccaga	agtcctctaa	1980
gtcttgccag	tacaaggtag	tcttgtgaag	aaaagttgaa	tactgttttg	ttttcatctc	2040
aagggttctc	ctgggtcttg	aactacttta	ataataacta	aaaaaccact	ctgtattttc	2100
cttcagtgat	gtgcttttgg	tgaagaatt	aatgaactcc	agtaacctga	agtgaagat	2160
ttgattttgt	ttccatcttc	tgtaactctc	caaagaatta	tatcttttga	aatctctcaa	2220
tactcaatct	actgtaagta	cccagggrgg	staatttcgt	taaaaaaaa	aaaaaaa	2278

<210> 132  
 <211> 1088  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (193)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (998)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1049)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1056)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1056)  
 <223> n equals a,t,g, or c

<400> 132						
ggcaggggag	gcgtgaaccc	gtcgggcact	gtgtccctga	caatgggaac	agccgacagt	60
gatgatgatg	ccccggagcc	ccacagcaca	cccacatcga	tgtgcacatc	caccaggagt	120

ctgcccctggc	caagctctctg	ctcacctgct	gctctgcgct	gcgcccccg	gccaccagg	180
ccaggggag	cancgcgctg	ctgggtggct	cgctgggtgat	gcagatcgtg	ctggggatct	240
tgagtcagat	cctaggagga	ttttctaca	tccgcgacta	cacctctctc	gtcacctcgg	300
gagctgccat	ctggacaggg	gctgtggctg	tgctggctgg	agctgctgcc	ttcatttayg	360
agaaacgggg	tggtacatac	tgggcccctg	tgaggactct	gctarcgctg	gcagctttct	420
ccacagccat	cgctgcctc	aaactttgga	atgaagattt	ccgatatggc	tactcttatt	480
acaacagtg	ctgcgcctc	tccagctcga	gtgactggaa	cactccagcc	cccactcaga	540
gtccagaaga	agtcagaagg	ctacacctat	gtacctcctt	catggacatg	ctgaaggcct	600
tggtcagaac	ccttcaggcc	atgctcttgg	gtgtctggat	tctgctgctt	ctggcatctc	660
tgggcccctc	gtggctgtac	tgctggagaa	tgltcccaac	caaaaggaaa	agagaccaga	720
aggaatgtt	ggaagtgagt	ggaatctagc	catgcctctc	ctgattatta	gtgcctgggtg	780
cttctgcacc	gggcgtccct	gcactcgact	gctggaagaa	gaaccagact	gaggaaaaga	840
ggctcttcaa	cagccccagt	tatcctggcc	ccatgacgtg	ggccacagcc	ctgctccagc	900
agcacttgc	cattctctac	accctctccc	catctgctc	cgcttcatgt	cccctcctga	960
gtagtcatgt	gataataaac	tctcatgtta	tgtgtccnaa	aaaaaaaaaa	aaaaaaaaat	1020
tggggggggg	ccggtaccca	ttggccctnn	gggggngggt	taaaattaat	gggggggggt	1080
taaaaggg						1088

<210> 133  
 <211> 553  
 <212> DNA  
 <213> Homo sapiens

<400> 133	ggcagagagc	agatggcctt	gacaccagca	gggtgacatc	cgctattgct	acttctctgc	60
	tcgccacagc	ttctcttgga	cttctctgga	ccacagctct	ctgcagagac	cctgccagac	120
	cccagctcac	catgatccat	ctgggtcaca	tcctcttctt	gcttttgcgc	ccagtggctg	180
	cagctcagac	gactccagga	gagagatcat	cactccctgc	cttttaccct	ggcacttcag	240
	gctcttgctc	cggatgtggg	tcctctctct	tgccgctcct	ggcaggcctc	gtgctgtctg	300
	atggggtggc	atcgctgctc	atcggtgggg	cgggtgttct	gtgcgcacgc	ccacgccgca	360
	gccccgccca	agatggcaaa	gtctacatca	acatgccagg	cagggggtga	ccctctctga	420
	gcttggacct	ttgactttct	accctctcat	cctggatggt	gtgtgtgtggc	acagggaacc	480
	ccgccccaac	ttttggattg	taataaaaca	attgaaacac	caaaaaaaaa	aaaaaaaaaa	540
	aaaaaaaaaa	aaa					553

<210> 134  
 <211> 467  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (97)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (119)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (240)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 134  
 Met Arg Pro Gln Glu Leu Pro Arg Leu Ala Phe Pro Leu Leu Leu Leu  
 1 5 10 15  
 Leu Leu Leu Leu Leu Pro Pro Pro Pro Cys Pro Ala His Ser Ala Thr

20

25

30

Arg Phe Asp Pro Thr Trp Glu Ser Leu Asp Ala Arg Gln Leu Pro Ala  
 35 40 45  
 Trp Phe Asp Gln Ala Lys Phe Gly Ile Phe Ile His Trp Gly Val Phe  
 50 55 60  
 Ser Val Pro Ser Phe Gly Ser Glu Trp Phe Trp Trp Tyr Trp Gln Lys  
 65 70 75 80  
 Glu Lys Ile Pro Lys Tyr Val Glu Phe Met Lys Asp Asn Tyr Pro Pro  
 85 90 95  
 Xaa Phe Lys Tyr Glu Asp Phe Gly Pro Leu Phe Thr Ala Lys Phe Phe  
 100 105 110  
 Asn Ala Asn Gln Trp Ala Xaa Ile Phe Gln Ala Ser Gly Ala Lys Tyr  
 115 120 125  
 Ile Val Leu Thr Ser Lys His His Glu Gly Phe Thr Leu Trp Gly Ser  
 130 135 140  
 Glu Tyr Ser Trp Asn Trp Asn Ala Ile Asp Glu Gly Pro Lys Arg Asp  
 145 150 155 160  
 Ile Val Lys Glu Leu Glu Val Ala Ile Arg Asn Arg Thr Asp Leu Arg  
 165 170 175  
 Phe Gly Leu Tyr Tyr Ser Leu Phe Glu Trp Phe His Pro Leu Phe Leu  
 180 185 190  
 Glu Asp Glu Ser Ser Ser Phe His Lys Arg Gln Phe Pro Val Ser Lys  
 195 200 205  
 Thr Leu Pro Glu Leu Tyr Glu Leu Val Asn Asn Tyr Gln Pro Glu Val  
 210 215 220  
 Leu Trp Ser Asp Gly Asp Gly Gly Ala Pro Asp Gln Tyr Trp Asn Xaa  
 225 230 235 240  
 Thr Gly Phe Leu Ala Trp Leu Tyr Asn Glu Ser Pro Val Arg Gly Thr  
 245 250 255  
 Val Val Thr Asn Asp Arg Trp Gly Ala Gly Ser Ile Cys Lys His Gly  
 260 265 270  
 Gly Phe Tyr Thr Cys Ser Asp Arg Tyr Asn Pro Gly His Leu Leu Pro  
 275 280 285  
 His Lys Trp Glu Asn Cys Met Thr Ile Asp Lys Leu Ser Trp Gly Tyr  
 290 295 300  
 Arg Arg Glu Ala Gly Ile Ser Asp Tyr Leu Thr Ile Glu Glu Leu Val  
 305 310 315 320  
 Lys Gln Leu Val Glu Thr Val Ser Cys Gly Gly Asn Leu Leu Met Asn  
 325 330 335  
 Ile Gly Pro Thr Leu Asp Gly Thr Ile Ser Val Val Phe Glu Glu Arg  
 340 345 350



Leu Arg Gln Met Gly Ser Trp Leu Lys Val Asn Gly Glu Ala Ile Tyr  
355 360 365

Glu Thr His Thr Trp Arg Ser Gln Asn Asp Thr Val Thr Pro Asp Val  
370 375 380

Trp Tyr Thr Ser Lys Pro Lys Glu Lys Leu Val Tyr Ala Ile Phe Leu  
385 390 395 400

Lys Trp Pro Thr Ser Gly Gln Leu Phe Leu Gly His Pro Lys Ala Ile  
405 410 415

Leu Gly Ala Thr Glu Val Lys Leu Leu Gly His Gly Gln Pro Leu Asn  
420 425 430

Trp Ile Ser Leu Glu Gln Asn Gly Ile Met Val Glu Leu Pro Gln Leu  
435 440 445

Thr Ile His Gln Met Pro Cys Lys Trp Gly Trp Ala Leu Ala Leu Thr  
450 455 460

Asn Val Ile  
465

<210> 135

<211> 222

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (222)

<223> Xaa equals stop translation

<400> 135

Met Trp Ser Ala Gly Arg Gly Gly Ala Ala Trp Pro Val Leu Leu Gly  
1 5 10 15

Leu Leu Leu Ala Leu Leu Val Pro Gly Gly Gly Ala Ala Lys Thr Gly  
20 25 30

Ala Glu Leu Val Thr Cys Gly Ser Val Leu Lys Leu Leu Asn Thr His  
35 40 45

His Arg Val Arg Leu His Ser His Asp Ile Lys Tyr Gly Ser Gly Ser  
50 55 60

Gly Gln Gln Ser Val Thr Gly Val Glu Ala Ser Asp Asp Ala Asn Ser  
65 70 75 80

Tyr Trp Arg Ile Arg Gly Gly Ser Glu Gly Gly Cys Arg Arg Gly Ser  
85 90 95

Pro Val Arg Cys Gly Gln Ala Val Arg Leu Thr His Val Leu Thr Gly  
100 105 110

Lys Asn Leu His Thr His His Phe Pro Ser Pro Leu Ser Asn Asn Gln  
115 120 125

Glu Val Ser Ala Phe Gly Glu Asp Gly Glu Gly Asp Asp Leu Asp Leu  
130 135 140

Trp Thr Val Arg Cys Ser Gly Gln His Trp Glu Arg Glu Ala Ala Val  
145 150 155 160

Arg Phe Gln His Val Gly Thr Ser Val Phe Leu Ser Val Thr Gly Glu  
165 170 175

Gln Tyr Gly Ser Pro Ile Arg Gly Gln His Glu Val His Gly Met Pro  
180 185 190

Ser Ala Asn Thr His Asn Thr Trp Lys Ala Met Glu Gly Ile Phe Ile  
195 200 205

Lys Pro Ser Val Glu Pro Ser Ala Gly His Asp Glu Leu Xaa  
210 215 220

<210> 136

<211> 156

<212> PRT

<213> Homo sapiens

<400> 136

Met Val Ile Glu Ile Ser Asn Lys Thr Ser Ser Ser Ser Thr Cys Ile  
1 5 10 15

Leu Val Leu Leu Val Ser Phe Cys Leu Leu Val Pro Ala Met Tyr  
20 25 30

Ser Ser Asp Thr Arg Gly Ser Leu Pro Ala Glu His Gly Val Leu Ser  
35 40 45

Arg Gln Leu Arg Ala Leu Pro Ser Glu Asp Pro Tyr Gln Leu Glu Leu  
50 55 60

Pro Ala Leu Gln Ser Glu Val Pro Lys Asp Ser Thr His Gln Trp Leu  
65 70 75 80

Asp Gly Ser Asp Cys Val Leu Gln Ala Pro Gly Asn Thr Ser Cys Leu  
85 90 95

Leu His Tyr Met Pro Gln Ala Pro Ser Ala Glu Pro Pro Leu Glu Trp  
100 105 110

Pro Phe Pro Asp Leu Phe Ser Glu Pro Leu Cys Arg Gly Pro Ile Leu  
115 120 125

Pro Leu Gln Ala Asn Leu Thr Arg Lys Gly Gly Trp Leu Pro Thr Gly  
130 135 140

Ser Pro Ser Val Ile Leu Gln Asp Arg Tyr Ser Gly  
145 150 155

<210> 137

<211> 233

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (233)

<223> Xaa equals stop translation

<400> 137

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Met Met Ile Leu Phe Asn Leu Leu Ile Phe Leu Cys Gly Ala Ala Leu
  1           5           10          15

Leu Ala Val Gly Ile Trp Val Ser Ile Asp Gly Ala Ser Phe Leu Lys
          20          25          30

Ile Phe Gly Pro Leu Ser Ser Ser Ala Met Gln Phe Val Asn Val Gly
          35          40          45

Tyr Phe Leu Ile Ala Ala Gly Val Val Val Phe Ala Leu Gly Phe Leu
          50          55          60

Gly Cys Tyr Gly Ala Lys Thr Glu Ser Lys Cys Ala Leu Val Thr Phe
          65          70          75          80

Phe Phe Ile Leu Leu Leu Ile Phe Ile Ala Glu Val Ala Ala Ala Val
          85          90          95

Val Ala Leu Val Tyr Thr Thr Met Ala Glu His Phe Leu Thr Leu Leu
          100         105         110

Val Val Pro Ala Ile Lys Lys Asp Tyr Gly Ser Gln Glu Asp Phe Thr
          115         120         125

Gln Val Trp Asn Thr Thr Met Lys Gly Leu Lys Cys Cys Gly Phe Thr
          130         135         140

Asn Tyr Thr Asp Phe Glu Asp Ser Pro Tyr Phe Lys Glu Asn Ser Ala
          145         150         155         160

Phe Pro Pro Phe Cys Cys Asn Asp Asn Val Thr Asn Thr Ala Asn Glu
          165         170         175

Thr Cys Thr Lys Gln Lys Ala His Asp Gln Lys Val Glu Gly Cys Phe
          180         185         190

Asn Gln Leu Leu Tyr Asp Ile Arg Thr Asn Ala Val Thr Val Gly Gly
          195         200         205

Val Ala Ala Gly Ile Gly Gly Leu Glu Leu Ala Ala Met Ile Val Ser
          210         215         220

Met Tyr Leu Tyr Cys Asn Leu Gln Xaa
          225         230

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<210> 138

<211> 61

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (43)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (50)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (54)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (56)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 138

Met Gly Ser Ser Arg Trp Ser Val Ala Cys Pro Thr Gly Leu Gly Val  
1 5 10 15

Leu Met Leu Gly Leu Gly Gly Asp His Pro Pro Gly Ser Gln Val Asp  
20 25 30

Pro Leu Leu Met Gly Xaa Cys Val Arg Pro Xaa Leu Pro Glu Leu Thr  
35 40 45

Ala Xaa Trp Arg Glu Xaa Gln Xaa Arg Ser Ala Ser Ala  
50 55 60

<210> 139

<211> 73

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (73)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 139

Met Gly Trp Leu Phe Leu Lys Val Leu Leu Ala Gly Val Ser Phe Ser  
1 5 10 15

Gly Phe Leu Tyr Pro Leu Val Asp Phe Cys Ile Ser Gly Lys Thr Arg  
20 25 30

Gly Gln Lys Pro Asn Phe Val Ile Ile Leu Ala Asp Asp Met Gly Trp  
35 40 45

Gly Asp Trp Gly Ala Asn Trp Ala Glu Thr Lys Asp Thr Ala Asn Leu  
50 55 60

Asp Lys Met Ala Ser Glu Gly Met Xaa  
65 70

<210> 140

<211> 377

<212> PRT

<213> Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (377)

&lt;223&gt; Xaa equals stop translation

&lt;400&gt; 140

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Met His Gly Asn Glu Ala Leu Gly Arg Glu Leu Leu Leu Leu Met
 1           5           10           15

Gln Phe Leu Cys His Glu Phe Leu Arg Gly Asn Pro Arg Val Thr Arg
          20           25           30

Leu Leu Ser Glu Met Arg Ile His Leu Leu Pro Ser Met Asn Pro Asp
          35           40           45

Gly Tyr Glu Ile Ala Tyr His Arg Gly Ser Glu Leu Val Gly Trp Ala
          50           55           60

Glu Gly Arg Trp Asn Asn Gln Ser Ile Asp Leu Asn His Asn Phe Ala
 65           70           75           80

Asp Leu Asn Thr Pro Leu Trp Glu Ala Gln Asp Asp Gly Lys Val Pro
          85           90           95

His Ile Val Pro Asn His His Leu Pro Leu Pro Thr Tyr Tyr Thr Leu
          100          105          110

Pro Asn Ala Thr Val Ala Pro Glu Thr Arg Ala Val Ile Lys Trp Met
          115          120          125

Lys Arg Ile Pro Phe Val Leu Ser Ala Asn Leu His Gly Gly Glu Leu
          130          135          140

Val Val Ser Tyr Pro Phe Asp Met Thr Arg Thr Pro Trp Ala Ala Arg
          145          150          155          160

Glu Leu Thr Pro Thr Pro Asp Asp Ala Val Phe Arg Trp Leu Ser Thr
          165          170          175

Val Tyr Ala Gly Ser Asn Leu Ala Met Gln Asp Thr Ser Arg Arg Pro
          180          185          190

Cys His Ser Gln Asp Phe Ser Val His Gly Asn Ile Ile Asn Gly Ala
          195          200          205

Asp Trp His Thr Val Pro Gly Ser Met Asn Asp Phe Ser Tyr Leu His
          210          215          220

Thr Asn Cys Phe Glu Val Thr Val Glu Leu Ser Cys Asp Lys Phe Pro
          225          230          235          240

His Glu Asn Glu Leu Pro Gln Glu Trp Glu Asn Asn Lys Asp Ala Leu
          245          250          255

Leu Thr Tyr Leu Glu Gln Val Arg Met Gly Ile Ala Gly Val Val Arg
          260          265          270

Asp Lys Asp Thr Glu Leu Gly Ile Ala Asp Ala Val Ile Ala Val Asp
          275          280          285

Gly Ile Asn His Asp Val Thr Thr Ala Trp Gly Gly Asp Tyr Trp Arg

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<210> 142
<211> 41
<212> PRT
<213> Homo sapiens

<400> 142
Met Val His Val Leu Glu Ile Leu Leu Phe Ile Thr Met Gln Ala Val
 1             5             10             15

Ser Phe Pro Phe Gln Thr Gln Ile Asp Thr Cys Asn Thr Gln Asp Pro
 20             25             30

Ala Glu Arg Gln Pro Ala Ser Ile Val
 35             40

```

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<210> 143
<211> 70
<212> PRT
<213> Homo sapiens

<400> 143
Met Gly Ser Cys Ser Lys Asn Arg Ser Phe Phe Trp Met Thr Gly Leu
 1          5          10          15
Leu Val Phe Ile Ser Leu Leu Leu Ser Glu Trp Gln Gly Pro Trp Glu
 20          25          30

```

Gly Arg Ala Ile Gly Glu Gly Trp Ala Ser Trp Ala Leu Thr Asn Gly  
 35 40 45

Trp Ala Val Gln Leu Leu Met Ser Leu Gly Asn Asn Thr Glu Lys His  
 50 55 60

Ser Val Met Ile Tyr Glu  
 65 70

<210> 144

<211> 483

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (29)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (483)

<223> Xaa equals stop translation

<400> 144

Met Ala Thr Gly Gly Gly Ile Arg Ala Met Thr Ser Leu Tyr Gly Gln  
 1 5 10 15

Leu Ala Gly Leu Lys Glu Leu Gly Leu Leu Asp Cys Xaa Ser Tyr Ile  
 20 25 30

Thr Gly Ala Ser Gly Ser Thr Trp Ala Leu Ala Asn Leu Tyr Lys Asp  
 35 40 45

Pro Glu Trp Ser Gln Lys Asp Leu Ala Gly Pro Thr Glu Leu Leu Lys  
 50 55 60

Thr Gln Val Thr Lys Asn Lys Leu Gly Val Leu Ala Pro Ser Gln Leu  
 65 70 75 80

Gln Arg Tyr Arg Gln Glu Leu Ala Glu Arg Ala Arg Leu Gly Tyr Pro  
 85 90 95

Ser Cys Phe Thr Asn Leu Trp Ala Leu Ile Asn Glu Ala Leu Leu His  
 100 105 110

Asp Glu Pro His Asp His Lys Leu Ser Asp Gln Arg Glu Ala Leu Ser  
 115 120 125

His Gly Gln Asn Pro Leu Pro Ile Tyr Cys Ala Leu Asn Thr Lys Gly  
 130 135 140

Gln Ser Leu Thr Thr Phe Glu Phe Gly Glu Trp Cys Glu Phe Ser Pro  
 145 150 155 160

Tyr Glu Val Gly Phe Pro Lys Tyr Gly Ala Phe Ile Pro Ser Glu Leu  
 165 170 175

Phe Gly Ser Glu Phe Phe Met Gly Gln Leu Met Lys Arg Leu Pro Glu  
 180 185 190

Ser Arg Ile Cys Phe Leu Glu Gly Ile Trp Ser Asn Leu Tyr Ala Ala  
 195 200 205  
 Asn Leu Gln Asp Ser Leu Tyr Trp Ala Ser Glu Pro Ser Gln Phe Trp  
 210 215 220  
 Asp Arg Trp Val Arg Asn Gln Ala Asn Leu Asp Lys Glu Gln Val Pro  
 225 230 235 240  
 Leu Leu Lys Ile Glu Glu Pro Pro Ser Thr Ala Gly Arg Ile Ala Glu  
 245 250 255  
 Phe Phe Thr Asp Leu Leu Thr Trp Arg Pro Leu Ala Gln Ala Thr His  
 260 265 270  
 Asn Phe Leu Arg Gly Leu His Phe His Lys Asp Tyr Phe Gln His Pro  
 275 280 285  
 His Phe Ser Thr Trp Lys Ala Thr Thr Leu Asp Gly Leu Pro Asn Gln  
 290 295 300  
 Leu Thr Pro Ser Glu Pro His Leu Cys Leu Leu Asp Val Gly Tyr Leu  
 305 310 315 320  
 Ile Asn Thr Ser Cys Leu Pro Leu Leu Gln Pro Thr Arg Asp Val Asp  
 325 330 335  
 Leu Ile Leu Ser Leu Asp Tyr Asn Leu His Gly Ala Phe Gln Gln Leu  
 340 345 350  
 Gln Leu Leu Gly Arg Phe Cys Gln Glu Gln Gly Ile Pro Phe Pro Pro  
 355 360 365  
 Ile Ser Pro Ser Pro Glu Glu Gln Leu Gln Pro Arg Glu Cys His Thr  
 370 375 380  
 Phe Ser Asp Pro Thr Cys Pro Gly Ala Pro Ala Val Leu His Phe Pro  
 385 390 395 400  
 Leu Val Ser Asp Ser Phe Arg Glu Tyr Ser Ala Pro Gly Val Arg Arg  
 405 410 415  
 Thr Pro Glu Glu Ala Ala Ala Gly Glu Val Asn Leu Ser Ser Ser Asp  
 420 425 430  
 Ser Pro Tyr His Tyr Thr Lys Val Thr Tyr Ser Gln Glu Asp Val Asp  
 435 440 445  
 Lys Leu Leu His Leu Thr His Tyr Asn Val Cys Asn Asn Gln Glu Gln  
 450 455 460  
 Leu Leu Glu Ala Leu Arg Gln Ala Val Gln Arg Arg Gln Arg Arg  
 465 470 475 480  
 Pro His Xaa

&lt;210&gt; 145

&lt;211&gt; 226

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens



&lt;400&gt; 145

Met Glu Gly Ala Pro Pro Gly Ser Leu Ala Leu Arg Leu Leu Leu Phe  
 1 5 10 15

Val Ala Leu Pro Ala Ser Gly Trp Leu Thr Thr Gly Ala Pro Glu Pro  
 20 25 30

Pro Pro Leu Ser Gly Ala Pro Gln Asp Gly Ile Arg Ile Asn Val Thr  
 35 40 45

Thr Leu Lys Asp Asp Gly Asp Ile Ser Lys Gln Gln Val Val Leu Asn  
 50 55 60

Ile Thr Tyr Glu Ser Gly Gln Val Tyr Val Asn Asp Leu Pro Val Asn  
 65 70 75 80

Ser Gly Val Thr Arg Ile Ser Cys Gln Thr Leu Ile Val Lys Asn Glu  
 85 90 95

Asn Leu Glu Asn Leu Glu Glu Lys Glu Tyr Phe Gly Ile Val Ser Val  
 100 105 110

Arg Ile Leu Val His Glu Trp Pro Met Thr Ser Gly Ser Ser Leu Gln  
 115 120 125

Leu Ile Val Ile Gln Glu Glu Val Val Glu Ile Asp Gly Lys Gln Val  
 130 135 140

Gln Gln Lys Asp Val Thr Glu Ile Asp Ile Leu Val Lys Asn Arg Gly  
 145 150 155 160

Val Leu Arg His Ser Asn Tyr Thr Leu Pro Leu Glu Glu Ser Met Leu  
 165 170 175

Tyr Ser Ile Ser Arg Asp Ser Asp Ile Leu Phe Thr Leu Pro Asn Leu  
 180 185 190

Ser Lys Lys Glu Ser Val Ser Ser Leu Gln Thr Thr Ser Gln Tyr Leu  
 195 200 205

Ile Arg Asn Val Glu Thr Thr Val Asp Glu Asp Val Leu Pro Gly Gln  
 210 215 220

Val Thr  
 225

&lt;210&gt; 146

&lt;211&gt; 45

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (45)

&lt;223&gt; Xaa equals stop translation

&lt;400&gt; 146

Met Gly Met Gly Ala Phe Gln Ala Phe Phe Trp Val Ile Leu Thr Val  
 1 5 10 15

Ser Asn Val Cys Val Leu Phe Lys Met Ser Leu Phe Phe Leu Leu Thr  
 20 25 30

Leu Ile Ser Lys Leu His Gly Asp Ala Glu Val Cys Xaa  
 35 40 45

<210> 147

<211> 132

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (132)

<223> Xaa equals stop translation

<400> 147

Met Ser Gly Gly Trp Met Ala Gln Val Gly Ala Trp Arg Thr Gly Ala  
 1 5 10 15

Leu Gly Leu Ala Leu Leu Leu Leu Leu Gly Leu Gly Leu Gly Leu Glu  
 20 25 30

Ala Pro Arg Ala Arg Phe Pro Pro Arg Pro Leu Pro Arg Pro His Pro  
 35 40 45

Ser Ser Gly Ser Cys Pro Pro Thr Lys Phe Gln Cys Arg Thr Ser Gly  
 50 55 60

Leu Cys Val Pro Leu Thr Trp Arg Cys Asp Arg Thr Trp Thr Ala Ala  
 65 70 75 80

Met Ala Ala Met Arg Arg Ser Ala Gly Leu Ser His Val Pro Arg Lys  
 85 90 95

Gly Asn Ala His Arg Pro Leu Ala Ser Pro Ala Pro Ala Pro Ala Ser  
 100 105 110

Val Thr Ala Leu Gly Glu Leu Thr Arg Asn Cys Ala Thr Ala Ala Ala  
 115 120 125

Trp Pro Ala Xaa  
 130

<210> 148

<211> 92

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (92)

<223> Xaa equals stop translation

<400> 148

Met Glu Ala Thr Leu Glu Gln His Leu Glu Asp Thr Met Lys Asn Pro  
 1 5 10 15

Ser Ile Val Gly Val Leu Cys Thr Asp Ser Gln Gly Leu Asn Leu Gly  
 20 25 30

Cys Arg Gly Thr Leu Ser Asp Glu His Ala Gly Val Ile Ser Val Leu  
 35 40 45

Ala Gln Gln Ala Ala Lys Leu Thr Ser Asp Pro Thr Asp Ile Pro Val  
 50 55 60

Val Cys Leu Glu Ser Asp Asn Gly Asn Ile Met Ile Gln Lys His Asp  
 65 70 75 80

Gly Ile Thr Val Ala Val His Lys Met Ala Ser Xaa  
 85 90

<210> 149  
 <211> 165  
 <212> PRT  
 <213> Homo sapiens

<220> '  
 <221> SITE  
 <222> (165)  
 <223> Xaa equals stop translation

<400> 149  
 Met Glu Pro Leu Arg Leu Leu Ile Leu Leu Phe Val Thr Glu Leu Ser  
 1 5 10 15

Gly Ala His Asn Thr Thr Val Phe Gln Gly Val Ala Gly Gln Ser Leu  
 20 25 30

Gln Val Ser Cys Pro Tyr Asp Ser Met Lys His Trp Gly Arg Arg Lys  
 35 40 45

Ala Trp Cys Arg Gln Leu Gly Glu Lys Gly Pro Cys Gln Arg Val Val  
 50 55 60

Ser Thr His Asn Leu Trp Leu Leu Ser Phe Leu Arg Arg Trp Asn Gly  
 65 70 75 80

Ser Thr Ala Ile Thr Asp Asp Thr Leu Gly Gly Thr Leu Thr Ile Thr  
 85 90 95

Leu Arg Asn Leu Gln Pro His Asp Ala Gly Leu Tyr Gln Cys Gln Ser  
 100 105 110

Leu His Gly Ser Glu Ala Asp Thr Leu Arg Lys Val Leu Val Glu Val  
 115 120 125

Leu Ala Asp Pro Leu Asp His Arg Asp Ala Gly Asp Leu Trp Phe Pro  
 130 135 140

Gly Glu Ser Glu Ser Phe Glu Asp Ala His Val Glu His Ser Ile Ser  
 145 150 155 160

Arg Ser Ser Ser Xaa  
 165

<210> 150  
 <211> 139  
 <212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (139)

<223> Xaa equals stop translation

<400> 150

Met Ile Ser Leu Thr Asp Thr Gln Lys Ile Gly Met Gly Leu Thr Gly  
1 5 10 15

Phe Gly Val Phe Phe Leu Phe Phe Gly Met Ile Leu Phe Phe Asp Lys  
20 25 30

Ala Leu Leu Ala Ile Gly Asn Val Leu Phe Val Ala Gly Leu Ala Phe  
35 40 45

Val Ile Gly Leu Glu Arg Thr Phe Arg Phe Phe Phe Gln Lys His Lys  
50 55 60

Met Lys Ala Thr Gly Phe Phe Leu Gly Gly Val Phe Val Val Leu Ile  
65 70 75 80

Gly Trp Pro Leu Ile Gly Met Ile Phe Glu Ile Tyr Gly Phe Phe Leu  
85 90 95

Leu Phe Arg Gly Phe Phe Pro Val Val Val Gly Phe Ile Arg Arg Val  
100 105 110

Pro Val Leu Gly Ser Leu Leu Asn Leu Pro Gly Ile Arg Ser Phe Val  
115 120 125

Asp Lys Val Gly Glu Ser Asn Asn Met Val Xaa  
130 135

<210> 151

<211> 58

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 151

Met Ser Ala Pro Gln Thr Arg Ile Ser Arg Ala Leu Val Leu Leu Phe  
1 5 10 15

Leu Ala Pro Thr Leu Leu Ser Leu Gly His Gly Ile His Pro Ile Asn  
20 25 30

Thr Ala Thr Pro Tyr Xaa Thr Asp Gln Ala Lys Leu Ala Pro Gly Thr  
35 40 45

Lys Glu Leu Asn His Asp Gln Ser Val Thr  
50 55

<210> 152

<211> 48

<212> PRT  
 <213> Homo sapiens  
  
 <220>  
 <221> SITE  
 <222> (48)  
 <223> Xaa equals stop translation  
  
 <400> 152  
 Met Ile Arg Lys Leu His Lys Ile Ile Val Phe Ser Pro Arg Val Ile  
 1 5 10 15  
  
 Val Leu Leu Asn Cys Phe Phe Phe Ile Lys Ala Lys Phe Val Leu Tyr  
 20 25 30  
  
 Ile Phe Val Phe His Val Leu Asp Gly Ser Ile Ser Tyr Pro Val Xaa  
 35 40 45

<210> 153  
 <211> 42  
 <212> PRT  
 <213> Homo sapiens  
  
 <220>  
 <221> SITE  
 <222> (42)  
 <223> Xaa equals stop translation  
  
 <400> 153  
 Met Leu Leu Asn Gln His Phe Lys Ile Phe Gly Ser Leu Ile His Met  
 1 5 10 15  
  
 Asn Leu Leu Phe Ala Leu Ile Ser Leu Gly Ser Ser Asn Leu Ser Gly  
 20 25 30  
  
 Val Gln Phe Cys Cys Glu Thr Val Gln Xaa  
 35 40

<210> 154  
 <211> 72  
 <212> PRT  
 <213> Homo sapiens  
  
 <220>  
 <221> SITE  
 <222> (29)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (40)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 154  
 Met Leu Ser Leu Ser Phe Leu Leu Arg Arg Val Leu Phe Leu Gly Phe  
 1 5 10 15

Leu Gln Ala Ser Val Gly Glu Lys Lys Ser Leu Arg Xaa Leu Asn Tyr  
20 25 30

Ser Val Pro His Pro Met Leu Xaa His Pro Pro Pro Asp Thr Ala Gln  
35 40 45

Val Pro Pro Arg Leu Glu Arg Ser Leu Leu Gln Gln Glu Leu Trp Thr  
50 55 60

Pro Gly Pro His His Ser Asn Ile  
65 70

<210> 155

<211> 106

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (106)

<223> Xaa equals stop translation

<400> 155

Met Gln Pro Leu Asn Phe Ser Ser Thr Glu Cys Ser Ser Phe Ser Pro  
1 5 10 15

Pro Thr Thr Val Ile Leu Leu Ile Leu Leu Cys Phe Glu Gly Leu Leu  
20 25 30

Phe Leu Ile Phe Thr Ser Val Met Phe Gly Thr Gln Val His Ser Ile  
35 40 45

Cys Thr Asp Glu Thr Gly Ile Glu Gln Leu Lys Lys Glu Glu Arg Arg  
50 55 60

Trp Ala Lys Lys Thr Lys Trp Met Asn Met Lys Ala Val Phe Gly His  
65 70 75 80

Pro Phe Ser Leu Gly Trp Ala Ser Pro Phe Ala Thr Pro Asp Gln Gly  
85 90 95

Lys Ala Asp Pro Tyr Gln Tyr Val Val Xaa  
100 105

<210> 156

<211> 29

<212> PRT

<213> Homo sapiens

<400> 156

Met Tyr Thr Asn His Phe Asn Leu Tyr Leu Lys Tyr Ile Leu Leu Ile  
1 5 10 15

Ile Leu Ile Leu Asn Met Thr Asn Ser Ser Ser Arg Tyr  
20 25

<210> 157

<211> 53

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (53)

<223> Xaa equals stop translation

<400> 157

Met Asn Glu Leu Leu Phe Phe Phe Phe Phe Phe Thr Phe  
1 5 10 15

Cys Ile Glu Thr Asn Ser Phe Lys Gln Thr Tyr Tyr Tyr Tyr Phe Leu  
20 25 30

Gln Asn Ile Tyr Met Glu Met Leu Pro Pro Pro Val Asn Pro Pro Val  
35 40 45

Pro Pro Trp Gly Xaa  
50

<210> 158

<211> 75

<212> PRT

<213> Homo sapiens

<400> 158

Met Tyr Ala Val Tyr Gln Gln Leu Ala Gln Leu Thr Leu Met Val Thr  
1 5 10 15

Leu Leu Ala Pro Ile Leu Pro Asp Glu Gln Ser Glu Val Phe Glu Ala  
20 25 30

Leu Ser Asn Leu Pro Lys Val Thr Trp Leu Gly Ser Asn Ser Pro Ser  
35 40 45

Ser Glu Met Pro Glu Pro Gly Arg Phe Val Ile Val His His Gln Leu  
50 55 60

Ser Ala Ala Ser His Ser Ser Ser Gln Leu Ala  
65 70 75

<210> 159

<211> 81

<212> PRT

<213> Homo sapiens

<400> 159

Met Trp Pro Pro Leu Leu Leu Leu Leu Leu Pro Ala Ala Pro  
1 5 10 15

Val Pro Thr Ala Lys Ala Ala Pro His Pro Asp Ala Asn Thr Gln Glu  
20 25 30

Gly Leu Gln Asn Leu Leu Gln Gly Val Gly Ala Gly Gly Asp Gly Glu  
35 40 45

Leu Arg Ala Asp Ser His Leu Ala Pro Gly Ser Gly Cys Ile Asp Gly  
50 55 60

Ala Val Val Ala Thr Arg Pro Glu Ser Arg Gly Gly Arg Pro Ala Val

65

70

75

80

Pro

&lt;210&gt; 160

&lt;211&gt; 139

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (139)

&lt;223&gt; Xaa equals stop translation

&lt;400&gt; 160

Met Lys Phe Thr Thr Leu Leu Phe Leu Ala Ala Val Ala Gly Ala Leu  
 1 5 10 15

Val Tyr Ala Glu Asp Ala Ser Ser Asp Ser Thr Gly Ala Asp Pro Ala  
 20 25 30

Gln Glu Ala Gly Thr Ser Lys Pro Asn Glu Glu Ile Ser Gly Pro Ala  
 35 40 45

Glu Pro Ala Ser Pro Pro Glu Thr Thr Thr Ala Gln Glu Thr Ser  
 50 55 60

Ala Ala Ala Val Gln Gly Thr Ala Lys Val Thr Ser Ser Arg Gln Glu  
 65 70 75 80

Leu Asn Pro Leu Lys Ser Ile Val Glu Lys Ser Ile Leu Leu Thr Glu  
 85 90 95

Gln Ala Leu Ala Lys Ala Gly Lys Gly Met His Gly Gly Val Pro Gly  
 100 105 110

Gly Lys Gln Phe Ile Glu Asn Gly Ser Glu Phe Ala Gln Lys Leu Leu  
 115 120 125

Lys Lys Phe Ser Leu Leu Lys Pro Trp Ala Xaa  
 130 135

&lt;210&gt; 161

&lt;211&gt; 178

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (178)

&lt;223&gt; Xaa equals stop translation

&lt;400&gt; 161

Met Leu Gly Cys Gly Ile Pro Ala Leu Gly Leu Leu Leu Leu Gln  
 1 5 10 15

Gly Ser Ala Asp Gly Asn Gly Ile Gln Gly Phe Phe Tyr Pro Trp Ser  
 20 25 30



Cys Glu Gly Asp Ile Trp Asp Arg Glu Ser Cys Gly Gly Gln Ala Ala  
35 40 45

Ile Asp Ser Pro Asn Leu Cys Leu Arg Leu Arg Cys Cys Tyr Arg Asn  
50 55 60

Gly Val Cys Tyr His Gln Arg Pro Asp Glu Asn Val Arg Arg Lys His  
65 70 75 80

Met Trp Ala Leu Val Trp Thr Cys Ser Gly Leu Leu Leu Ser Cys  
85 90 95

Ser Ile Cys Leu Phe Trp Trp Ala Lys Arg Arg Asp Val Leu His Met  
100 105 110

Pro Gly Phe Leu Ala Gly Pro Cys Asp Met Ser Lys Ser Val Ser Leu  
115 120 125

Leu Ser Lys His Arg Gly Thr Lys Lys Thr Pro Ser Thr Gly Ser Val  
130 135 140

Pro Val Ala Leu Ser Lys Glu Ser Arg Asp Val Glu Gly Gly Thr Glu  
145 150 155 160

Gly Glu Gly Thr Glu Glu Gly Glu Glu Thr Glu Gly Glu Glu Glu  
165 170 175

Asp Xaa

<210> 162

<211> 72

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (72)

<223> Xaa equals stop translation

<400> 162

Met Glu Ala Val Phe Thr Val Phe Phe Phe Val Val Val Leu Phe Leu  
1 5 10 15

Lys Asn Thr Glu Gly Ala Lys Leu Phe Cys Thr Leu Tyr Pro Ala Ala  
20 25 30

Ser Ser Gly Gln Ser Gln Gly Pro Gly Leu Glu Lys Pro Asp Ser Gln  
35 40 45

Glu Cys Ile Ile Asp Pro Cys Ser Tyr Pro Ile Ala Leu Gly Ala Gly  
50 55 60

Thr Glu Pro Gly Cys Lys Ile Xaa  
65 70

<210> 163

<211> 67

<212> PRT

<213> Homo sapiens

<220>  
 <221> SITE  
 <222> (16)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (19)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (35)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (50)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 163  
 Met Trp Phe Tyr Phe Leu Ser Val Ser Phe Pro Leu Leu Pro Val Xaa  
 1 5 10 15  
 Ala Pro Xaa Pro Pro Pro Ala Pro Thr Thr Leu Cys Leu Leu Leu Phe  
 20 25 30  
 Leu Gly Xaa Leu Tyr Asn Ser Thr Cys Ile His Cys Val His Thr Thr  
 35 40 45  
 Ser Xaa Thr Gln Asn Pro Thr Ala Asn Thr Leu Lys Lys Lys Lys  
 50 55 60  
 Asn Trp Gly  
 65

<210> 164  
 <211> 155  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (155)  
 <223> Xaa equals stop translation

<400> 164  
 Met Gly Phe Gly Ala Thr Leu Ala Val Gly Leu Thr Ile Phe Val Leu  
 1 5 10 15  
 Ser Val Val Thr Ile Ile Ile Cys Phe Thr Cys Ser Cys Cys Cys Leu  
 20 25 30  
 Tyr Lys Thr Cys Arg Arg Pro Arg Pro Val Val Thr Thr Thr Ser  
 35 40 45  
 Thr Thr Val Val His Ala Pro Tyr Pro Gln Pro Pro Ser Val Pro Pro  
 50 55 60  
 Ser Tyr Pro Gly Pro Ser Tyr Gln Gly Tyr His Thr Met Pro Pro Gln

65                      70                      75                      80

Pro Gly Met Pro Ala Ala Pro Tyr Pro Met Gln Tyr Pro Pro Pro Tyr  
85                      90                      95

Pro Ala Gln Pro Met Gly Pro Pro Ala Tyr His Glu Thr Leu Ala Gly  
100                      105                      110

Glu Gln Pro Arg Pro Thr Pro Pro Ala Ser Leu Leu Thr Thr Arg Pro  
115                      120                      125

Thr Trp Met Pro Arg Arg Pro Ser Glu His Ser Leu Ala Ser Leu  
130                      135                      140

Ala Ala Thr Trp Leu Cys Cys Val Cys Ala Xaa  
145                      150                      155

<210> 165  
<211> 104  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (104)  
<223> Xaa equals stop translation

<400> 165  
Met Ile Ile Leu Val Phe Ile Ala Phe Phe Ile Pro Leu Gln Lys Thr  
1                      5                      10                      15

Ile Gly Lys Ile Ala Thr Cys Leu Glu Leu Arg Ser Ala Ala Leu Gln  
20                      25                      30

Ser Thr Gln Ser Gln Glu Glu Phe Lys Leu Glu Asp Leu Lys Lys Leu  
35                      40                      45

Glu Pro Ile Leu Lys Asn Ile Leu Thr Tyr Asn Lys Glu Phe Pro Phe  
50                      55                      60

Asp Val Gln Pro Val Pro Leu Arg Arg Ile Leu Ala Pro Gly Glu Glu  
65                      70                      75                      80

Glu Asn Leu Glu Phe Glu Glu Asp Glu Glu Gly Gly Ala Gly Ala  
85                      90                      95

Gly Leu Leu Ile Leu Ser Cys Xaa  
100

<210> 166  
<211> 81  
<212> PRT  
<213> Homo sapiens

<400> 166  
Met Ala Gly Thr Met Val Ile Val Val Val Val Val Gly Glu Val  
1                      5                      10                      15

Val Val Glu Ala Glu Val Val Val Gln Ala Arg Glu Glu Ala Gly Glu  
20                      25                      30



<210> 169  
 <211> 232  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (232)  
 <223> Xaa equals stop translation

<400> 169  
 Met Ala Thr Leu Trp Gly Gly Leu Leu Arg Leu Gly Ser Leu Leu Ser  
           1                  5                  10                  15  
 Leu Ser Cys Leu Ala Leu Ser Val Leu Leu Ala His Cys Gln Thr  
                   20                  25                  30  
 Pro Pro Arg Ile Ser Arg Met Ser Asp Val Asn Val Ser Ala Leu Pro  
                   35                  40                  45  
 Ile Lys Lys Asn Ser Gly His Ile Tyr Asn Lys Asn Ile Ser Gln Lys  
           50                  55                  60  
 Asp Cys Asp Cys Leu His Val Val Glu Pro Met Pro Val Arg Gly Pro  
           65                  70                  75                  80  
 Asp Val Glu Ala Tyr Cys Leu Arg Cys Glu Cys Lys Tyr Glu Glu Arg  
                   85                  90                  95  
 Ser Ser Val Thr Ile Lys Val Thr Ile Ile Ile Tyr Leu Ser Ile Leu  
           100                  105                  110  
 Gly Leu Leu Leu Leu Tyr Met Val Tyr Leu Thr Leu Val Glu Pro Ile  
           115                  120                  125  
 Leu Lys Arg Arg Leu Phe Gly His Ala Gln Leu Ile Gln Ser Asp Asp  
           130                  135                  140  
 Asp Ile Gly Asp His Gln Pro Phe Ala Asn Ala His Asp Val Leu Ala  
           145                  150                  155                  160  
 Arg Ser Arg Ser Arg Ala Asn Val Leu Asn Lys Val Glu Tyr Gly Thr  
           165                  170                  175  
 Ala Ala Leu Glu Ala Ser Ser Pro Arg Ala Ala Lys Ser Leu Ser Leu  
           180                  185                  190  
 Thr Gly Met Leu Ser Ser Ala Asn Trp Gly Ile Glu Phe Lys Val Thr  
           195                  200                  205  
 Arg Lys Lys Gln Ala Asp Asn Trp Lys Gly Thr Asp Trp Val Leu Leu  
           210                  215                  220  
 Gly Phe Ile Leu Ile Pro Cys Xaa  
           225                  230

<210> 170  
 <211> 72  
 <212> PRT  
 <213> Homo sapiens

&lt;400&gt; 170

Met Ser Ala Ile Phe Asn Phe Gln Ser Leu Leu Thr Val Ile Leu Leu  
 1 5 10 15

Leu Ile Cys Thr Cys Ala Tyr Ile Arg Ser Leu Ala Pro Ser Leu Leu  
 20 25 30

Asp Arg Asn Lys Thr Gly Leu Leu Gly Ile Phe Trp Lys Cys Ala Arg  
 35 40 45

Ile Gly Glu Arg Lys Ser Pro Tyr Val Ala Val Cys Cys Ile Val Met  
 50 55 60

Ala Phe Ser Ile Leu Phe Ile Gln  
 65 70

&lt;210&gt; 171

&lt;211&gt; 65

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 171

Met Gly Thr Phe Ser Leu Ser Leu Phe Gly Leu Met Gly Val Ala Phe  
 1 5 10 15

Gly Met Asn Leu Glu Ser Ser Leu Glu Glu Asp His Arg Ile Phe Trp  
 20 25 30

Leu Ile Thr Gly Ile Met Phe Met Gly Ser Gly Leu Ile Trp Arg Arg  
 35 40 45

Leu Leu Ser Phe Leu Gly Arg Gln Leu Glu Ala Pro Leu Pro Pro Met  
 50 55 60

Val  
 65

&lt;210&gt; 172

&lt;211&gt; 75

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 172

Met Tyr Lys Gly Lys Leu Val Ile Val Leu Ile Leu Leu Leu Pro  
 1 5 10 15

Ser His Phe Met Phe Leu Thr Gln Cys Lys Glu Ile Lys His Asn Leu  
 20 25 30

Lys Lys Asn Met Ser Leu Leu Leu Phe Thr Ile Lys Ser Trp Leu Tyr  
 35 40 45

Ser Ala Ser Leu Gly Ile Leu Tyr Asn Trp Gln His Leu Thr Ala Gln  
 50 55 60

Val Asp Gln Cys Thr Ser Leu Ile Leu Ile His  
 65 70 75

<210> 173  
 <211> 334  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (9)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 173  
 Met Val Gly His Glu Met Ala Ser Xaa Ser Ser Asn Thr Ser Leu Pro  
 1 5 10 15  
 Phe Ser Asn Met Gly Asn Pro Met Asn Thr Thr Gln Leu Gly Lys Ser  
 20 25 30  
 Leu Phe Gln Trp Gln Val Glu Gln Glu Ser Lys Leu Ala Asn Ile  
 35 40 45  
 Ser Gln Asp Gln Phe Leu Ser Lys Asp Ala Asp Gly Asp Thr Phe Leu  
 50 55 60  
 His Ile Ala Val Ala Gln Gly Arg Arg Ala Leu Ser Tyr Val Leu Ala  
 65 70 75 80  
 Arg Lys Met Asn Ala Leu His Met Leu Asp Ile Lys Glu His Asn Gly  
 85 90 95  
 Gln Ser Ala Phe Gln Val Ala Val Ala Ala Asn Gln His Leu Ile Val  
 100 105 110  
 Gln Asp Leu Val Asn Ile Gly Ala Gln Val Asn Thr Thr Asp Cys Trp  
 115 120 125  
 Gly Arg Thr Pro Leu His Val Cys Ala Glu Lys Gly His Ser Gln Val  
 130 135 140  
 Leu Gln Ala Ile Gln Lys Gly Ala Val Gly Ser Asn Gln Phe Val Asp  
 145 150 155 160  
 Leu Glu Ala Thr Asn Tyr Asp Gly Leu Thr Pro Leu His Cys Ala Val  
 165 170 175  
 Ile Ala His Asn Ala Val Val His Glu Leu Gln Arg Asn Gln Gln Pro  
 180 185 190  
 His Ser Pro Glu Val Gln Glu Leu Leu Leu Lys Asn Lys Ser Leu Val  
 195 200 205  
 Asp Thr Ile Lys Cys Leu Ile Gln Met Gly Ala Ala Val Glu Ala Lys  
 210 215 220  
 Asp Arg Lys Ser Gly Arg Thr Ala Leu His Leu Ala Ala Glu Glu Ala  
 225 230 235 240  
 Asn Leu Glu Leu Ile Arg Leu Phe Leu Glu Leu Pro Ser Cys Leu Ser  
 245 250 255  
 Phe Val Asn Ala Lys Ala Tyr Asn Gly Asn Thr Ala Leu His Val Ala  
 260 265 270





<210> 175  
 <211> 265  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (265)  
 <223> Xaa equals stop translation

<400> 175  
 Met Ser Asp Leu Leu Leu Gly Leu Ile Gly Gly Leu Thr Leu Leu  
 1 5 10 15  
 Leu Leu Leu Thr Leu Leu Ala Phe Ala Gly Tyr Ser Gly Leu Leu Ala  
 20 25 30  
 Gly Val Glu Val Ser Ala Gly Ser Pro Pro Ile Arg Asn Val Thr Val  
 35 40 45  
 Ala Tyr Lys Phe His Met Gly Leu Tyr Gly Glu Thr Gly Arg Leu Phe  
 50 55 60  
 Thr Glu Ser Cys Ser Ile Ser Pro Lys Leu Arg Ser Ile Ala Val Tyr  
 65 70 75 80  
 Tyr Asp Asn Pro His Met Val Pro Pro Asp Lys Cys Arg Cys Ala Val  
 85 90 95  
 Gly Ser Ile Leu Ser Glu Gly Glu Glu Ser Pro Ser Pro Glu Leu Ile  
 100 105 110  
 Asp Leu Tyr Gln Lys Phe Gly Phe Lys Val Phe Ser Phe Pro Glu Pro  
 115 120 125  
 Ser His Val Val Thr Ala Thr Phe Pro Leu Thr Pro Pro Phe Cys Pro  
 130 135 140  
 Ile Trp Leu Gly Tyr Pro Pro Cys Pro Ser Cys Leu Gly His Leu His  
 145 150 155 160  
 Gln Gly Ala Glu Ala Val Cys Leu Ser Ser Ala Gly Asp Leu Pro Gly  
 165 170 175  
 Arg Pro Glu Ser Ile Ser Cys Ala His Trp His Gly Gln Gly Asp Phe  
 180 185 190  
 Tyr Val Pro Glu Met Lys Glu Thr Glu Trp Lys Trp Arg Gly Leu Val  
 195 200 205  
 Glu Ala Ile Asp Thr Gln Val Asp Gly Thr Gly Ala Asp Thr Met Ser  
 210 215 220  
 Asp Thr Ser Ser Val Ser Leu Glu Val Ser Pro Gly Ser Arg Glu Thr  
 225 230 235 240  
 Ser Ala Ala Thr Leu Ser Pro Gly Ala Ser Ser Arg Gly Trp Asp Asp  
 245 250 255  
 Gly Asp Thr Arg Ser Glu His Ser Xaa

260

265

<210> 176  
 <211> 138  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (138)  
 <223> Xaa equals stop translation

<400> 176  
 Met Ala Gln Leu Phe Leu Pro Leu Leu Ala Ala Leu Val Leu Ala Gln  
           1                  5                  10                  15  
 Ala Pro Ala Ala Leu Ala Asp Val Leu Glu Gly Asp Ser Ser Glu Asp  
                   20                  25                  30  
 Arg Ala Phe Arg Val Arg Ile Ala Gly Asp Ala Pro Leu Gln Gly Val  
                   35                  40                  45  
 Leu Gly Gly Ala Leu Thr Ile Pro Cys His Val His Tyr Leu Arg Pro  
                   50                  55                  60  
 Pro Pro Ser Arg Arg Ala Val Leu Gly Ser Pro Arg Val Lys Trp Thr  
                   65                  70                  75                  80  
 Phe Leu Ser Arg Gly Arg Glu Ala Glu Val Leu Val Ala Arg Gly Val  
                   85                  90                  95  
 Arg Val Lys Val Asn Glu Ala Tyr Arg Phe Arg Val Ala Leu Pro Ala  
                   100                  105                  110  
 Tyr Pro Ala Ser Leu Thr Asp Val Ser Pro Gly Ala Glu Arg Ala Ala  
                   115                  120                  125  
 Pro Gln Arg Leu Arg Tyr Leu Ser Leu Xaa  
                   130                  135

<210> 177  
 <211> 179  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (179)  
 <223> Xaa equals stop translation

<400> 177  
 Met Pro Ala Leu Arg Pro Ala Leu Leu Trp Ala Leu Leu Ala Leu Trp  
           1                  5                  10                  15  
 Leu Cys Cys Ala Thr Pro Ala His Ala Leu Gln Cys Arg Asp Gly Tyr  
                   20                  25                  30  
 Glu Pro Cys Val Asn Glu Gly Met Cys Val Thr Tyr His Asn Gly Thr  
                   35                  40                  45

Gly Tyr Cys Lys Gly Pro Glu Gly Phe Leu Gly Glu Tyr Cys Gln His  
 50 55 60

Arg Asp Pro Cys Glu Lys Asn Arg Cys Gln Asn Gly Gly Thr Cys Val  
 65 70 75 80

Ala Gln Ala Met Leu Gly Lys Ala Thr Cys Arg Cys Ala Ser Gly Phe  
 85 90 95

Thr Gly Glu Asp Cys Gln Tyr Ser Thr Ser His Pro Cys Phe Val Ser  
 100 105 110

Arg Pro Cys Leu Asn Gly Gly Thr Cys His Met Leu Ser Arg Asp Thr  
 115 120 125

Tyr Glu Cys Thr Cys Gln Val Gly Phe Thr Gly Lys Glu Cys Gln Trp  
 130 135 140

Thr Asp Ala Cys Leu Ser His Pro Cys Ala Asn Gly Ser Thr Cys Thr  
 145 150 155 160

Thr Val Ala Asn His Phe Leu Gln Met Pro His Arg Leu His Arg Ala  
 165 170 175

Glu Val Xaa

<210> 178  
 <211> 155  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (155)  
 <223> Xaa equals stop translation

<400> 178  
 Met Thr Arg Gly Gly Pro Gly Gly Arg Pro Gly Leu Pro Gln Pro Pro  
 1 5 10 15

Pro Leu Leu Leu Leu Leu Leu Pro Leu Leu Leu Val Thr Ala Glu  
 20 25 30

Pro Pro Lys Pro Ala Gly Val Tyr Tyr Ala Thr Ala Tyr Trp Met Pro  
 35 40 45

Ala Glu Lys Thr Val Gln Val Lys Asn Val Met Asp Lys Asn Gly Asp  
 50 55 60

Ala Tyr Gly Phe Tyr Asn Asn Ser Val Lys Thr Thr Gly Trp Gly Ile  
 65 70 75 80

Leu Glu Ile Arg Ala Gly Tyr Gly Ser Gln Thr Leu Ser Asn Glu Ile  
 85 90 95

Ile Met Phe Val Ala Gly Phe Leu Glu Gly Tyr Leu Ile Ala Pro His  
 100 105 110

Met Asn Asp His Tyr Thr Asn Leu Tyr Pro Gln Leu Ile Thr Lys Pro  
 115 120 125

Ser Ile Met Asp Lys Val Gln Asp Phe Met Glu Lys Gln Asp Lys Val  
 130 135 140

Asp Pro Glu Lys Tyr Gln Arg Ile Gln Asp Xaa  
 145 150 155

<210> 179

<211> 295

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 179

Met Leu Gln Gly Pro Gly Ser Leu Leu Leu Leu Phe Leu Ala Ser His  
 1 5 10 15

Cys Cys Leu Gly Ser Ala Arg Gly Leu Phe Leu Phe Gly Gln Pro Asp  
 20 25 30

Phe Ser Tyr Lys Arg Xaa Asn Cys Lys Pro Ile Pro Val Asn Leu Gln  
 35 40 45

Leu Cys His Gly Ile Glu Tyr Gln Asn Met Arg Leu Pro Asn Leu Leu  
 50 55 60

Gly His Glu Thr Met Lys Glu Val Leu Glu Gln Ala Gly Ala Trp Ile  
 65 70 75 80

Pro Leu Val Met Lys Gln Cys His Pro Asp Thr Lys Lys Phe Leu Cys  
 85 90 95

Ser Leu Phe Ala Pro Val Cys Leu Asp Asp Leu Asp Glu Thr Ile Gln  
 100 105 110

Pro Cys His Ser Leu Cys Val Gln Val Lys Asp Arg Cys Ala Pro Val  
 115 120 125

Met Ser Ala Phe Gly Phe Pro Trp Pro Asp Met Leu Glu Cys Asp Arg  
 130 135 140

Phe Pro Gln Asp Asn Asp Leu Cys Ile Pro Leu Ala Ser Ser Asp His  
 145 150 155 160

Leu Leu Pro Ala Thr Glu Glu Ala Pro Lys Val Cys Glu Ala Cys Lys  
 165 170 175

Asn Lys Asn Asp Asp Asp Asn Asp Ile Met Glu Thr Leu Cys Lys Asn  
 180 185 190

Asp Phe Ala Leu Lys Ile Lys Val Lys Glu Ile Thr Tyr Ile Asn Arg  
 195 200 205

Asp Thr Lys Ile Ile Leu Glu Thr Lys Ser Lys Thr Ile Tyr Lys Leu  
 210 215 220

Asn Gly Val Ser Glu Arg Asp Leu Lys Lys Ser Val Leu Trp Leu Lys

225                      230                      235                      240  
 Asp Ser Leu Gln Cys Thr Cys Glu Glu Met Asn Asp Ile Asn Ala Pro  
                                  245                      250                      255  
 Tyr Leu Val Met Gly Gln Lys Gln Gly Gly Glu Leu Val Ile Thr Ser  
                                  260                      265                      270  
 Val Lys Arg Trp Gln Lys Gly Gln Arg Glu Phe Lys Arg Ile Ser Arg  
                                  275                      280                      285  
 Ser Ile Arg Lys Leu Gln Cys  
                                  290                      295  
  
 <210> 180  
 <211> 256  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 180  
 Met Arg Pro Ala Ala Leu Arg Gly Ala Leu Leu Gly Cys Leu Cys Leu  
                                  1                      5                      10                      15  
 Ala Leu Leu Cys Leu Gly Gly Ala Asp Lys Arg Leu Arg Asp Asn His  
                                  20                      25                      30  
 Glu Trp Lys Lys Leu Ile Met Val Gln His Trp Pro Glu Thr Val Cys  
                                  35                      40                      45  
 Glu Lys Ile Gln Asn Asp Cys Arg Asp Pro Pro Asp Tyr Trp Thr Ile  
                                  50                      55                      60  
 His Gly Leu Trp Pro Asp Lys Ser Glu Gly Cys Asn Arg Ser Trp Pro  
                                  65                      70                      75                      80  
 Phe Asn Leu Glu Glu Ile Lys Asp Leu Leu Pro Glu Met Arg Ala Tyr  
                                  85                      90                      95  
 Trp Pro Asp Val Ile His Ser Phe Pro Asn Arg Ser Arg Phe Trp Lys  
                                  100                      105                      110  
 His Glu Trp Glu Lys His Gly Thr Cys Ala Ala Gln Val Asp Ala Leu  
                                  115                      120                      125  
 Asn Ser Gln Lys Lys Tyr Phe Gly Arg Ser Leu Glu Leu Tyr Arg Glu  
                                  130                      135                      140  
 Leu Asp Leu Asn Ser Val Leu Leu Lys Leu Gly Ile Lys Pro Ser Ile  
                                  145                      150                      155                      160  
 Asn Tyr Tyr Gln Val Ala Asp Phe Lys Asp Ala Leu Ala Arg Val Tyr  
                                  165                      170                      175  
 Gly Val Ile Pro Lys Ile Gln Cys Leu Pro Pro Ser Gln Asp Glu Glu  
                                  180                      185                      190  
 Val Gln Thr Ile Gly Gln Ile Glu Leu Cys Leu Thr Lys Gln Asp Gln  
                                  195                      200                      205  
 Gln Leu Gln Asn Cys Thr Glu Pro Gly Glu Gln Pro Ser Pro Lys Gln  
                                  210                      215                      220

Glu Val Trp Leu Ala Asn Gly Ala Ala Glu Ser Arg Gly Leu Arg Val  
225 230 235 240

Cys Glu Asp Gly Pro Val Phe Tyr Pro Pro Lys Lys Thr Lys His  
245 250 255

<210> 181

<211> 324

<212> PRT

<213> Homo sapiens

<400> 181

Met Ala Pro Leu Leu Leu Gln Leu Ala Val Leu Gly Ala Ala Leu Ala  
1 5 10 15

Ala Ala Ala Leu Val Leu Ile Ser Ile Val Ala Phe Thr Thr Ala Thr  
20 25 30

Lys Met Pro Ala Leu His Arg His Glu Glu Glu Lys Phe Phe Leu Asn  
35 40 45

Ala Lys Gly Gln Lys Glu Thr Leu Pro Ser Ile Trp Asp Ser Pro Thr  
50 55 60

Lys Gln Leu Ser Val Val Val Pro Ser Tyr Asn Glu Glu Lys Arg Leu  
65 70 75 80

Pro Val Met Met Asp Glu Ala Leu Ser Tyr Leu Glu Lys Arg Gln Lys  
85 90 95

Arg Asp Pro Ala Phe Thr Tyr Glu Val Ile Val Val Asp Asp Gly Ser  
100 105 110

Lys Asp Gln Thr Ser Lys Val Ala Phe Lys Tyr Cys Gln Lys Tyr Gly  
115 120 125

Ser Asp Lys Val Arg Val Ile Thr Leu Val Lys Asn Arg Gly Lys Gly  
130 135 140

Gly Ala Ile Arg Met Gly Ile Phe Ser Ser Arg Gly Glu Lys Ile Leu  
145 150 155 160

Met Ala Asp Ala Asp Gly Ala Thr Lys Phe Pro Asp Val Glu Lys Leu  
165 170 175

Glu Lys Gly Leu Asn Asp Leu Gln Pro Trp Pro Asn Gln Met Ala Ile  
180 185 190

Ala Cys Gly Ser Arg Ala His Leu Glu Lys Glu Ser Ile Ala Gln Arg  
195 200 205

Ser Tyr Phe Arg Thr Leu Leu Met Tyr Gly Phe His Phe Leu Val Trp  
210 215 220

Phe Leu Cys Val Lys Gly Ile Arg Asp Thr Gln Cys Gly Phe Lys Leu  
225 230 235 240

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<210> 184  
 <211> 168  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (2)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (8)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (51)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (168)  
 <223> Xaa equals stop translation

<400> 184  
 Met Xaa Thr Lys Glu Phe Gly Xaa Gly Arg Ala Val Gln Gln Val Leu  
           1                  5                  10                  15  
 Asn Ile Glu Cys Leu Arg Asp Phe Leu Thr Pro Pro Leu Leu Ser Val  
                   20                  25                  30  
 Arg Phe Arg Tyr Val Gly Ala Pro Gln Ala Leu Thr Leu Lys Leu Pro  
                   35                  40                  45  
 Val Thr Xaa Asn Lys Phe Phe Gln Pro Thr Glu Met Ala Ala Gln Asp  
                   50                  55                  60  
 Phe Phe Gln Arg Trp Lys Gln Leu Ser Leu Pro Gln Gln Glu Ala Gln  
                   65                  70                  75                  80  
 Lys Ile Phe Lys Ala Asn His Pro Met Asp Ala Glu Val Thr Lys Ala  
                   85                  90                  95  
 Lys Leu Leu Gly Phe Gly Ser Ala Leu Leu Asp Asn Val Asp Pro Asn  
                   100                  105                  110  
 Pro Glu Asn Phe Val Gly Ala Gly Ile Ile Gln Thr Lys Ala Leu Gln  
                   115                  120                  125  
 Val Gly Cys Leu Leu Arg Leu Glu Pro Asn Ala Gln Ala Gln Met Tyr  
                   130                  135                  140  
 Arg Leu Thr Leu Arg Thr Ser Lys Glu Pro Val Ser Arg His Leu Cys  
                   145                  150                  155                  160  
 Glu Leu Leu Ala Gln Gln Phe Xaa  
                   165



<210> 185  
 <211> 43  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (12)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (43)  
 <223> Xaa equals stop translation

<400> 185  
 Met Phe Tyr Val Leu Ser Val Ser Pro Leu Leu Xaa Phe Leu Ala Cys  
           1                  5                  10                  15

Gly Leu Cys Leu Cys Val Asn Trp Lys Ile Ala Ile Ser Gln Leu Ser  
                   20                  25                  30

Leu Ser Phe Lys Asn Glu Leu Glu Lys Pro Xaa  
           35                  40

<210> 186  
 <211> 59  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (42)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (59)  
 <223> Xaa equals stop translation

<400> 186  
 Met Lys Leu Phe Asp Ala Ser Pro Thr Phe Phe Ala Phe Leu Leu Gly  
           1                  5                  10                  15

His Ile Leu Ala Met Glu Val Leu Ala Trp Leu Leu Ile Tyr Leu Leu  
                   20                  25                  30

Gly Pro Gly Trp Val Pro Ser Ala Leu Xaa Arg Leu His Pro Gly His  
           35                  40                  45

Leu Ser Gly Ser Val Leu Val Ser Ala Ala Xaa  
           50                  55

<210> 187  
 <211> 123  
 <212> PRT  
 <213> Homo sapiens

<400> 187

Met Ile Leu Gly Gly Ile Val Val Val Leu Val Phe Thr Gly Phe Val  
1 5 10 15

Trp Ala Ala His Asn Lys Asp Val Leu Arg Arg Met Lys Lys Arg Tyr  
20 25 30

Pro Thr Thr Phe Val Met Val Val Met Leu Ala Ser Tyr Phe Leu Ile  
35 40 45

Ser Met Phe Gly Gly Val Met Val Phe Val Phe Gly Ile Thr Phe Pro  
50 55 60

Leu Leu Leu Met Phe Ile His Ala Ser Leu Arg Leu Arg Asn Leu Lys  
65 70 75 80

Asn Lys Leu Glu Asn Lys Met Glu Gly Ile Gly Leu Lys Arg Thr Pro  
85 90 95

Met Gly Ile Val Leu Asp Ala Leu Glu Gln Gln Glu Glu Gly Ile Asn  
100 105 110

Arg Leu Thr Asp Tyr Ile Ser Lys Val Lys Glu  
115 120

<210> 188

<211> 146

<212> PRT

<213> Homo sapiens

<400> 188

Met Phe Leu Thr Arg Ile Leu Cys Pro Thr Tyr Ile Ala Leu Thr Phe  
1 5 10 15

Leu Val Tyr Ile Val Ala Leu Val Ser Gly Gln Leu Cys Met Glu Ile  
20 25 30

Ala Arg Gly Asn Ile Phe Phe Leu Asn Glu Leu Val Thr Thr Phe Cys  
35 40 45

Cys Ser Cys Leu Leu Leu Ser Val Pro Tyr Leu His Pro Gly Phe Phe  
50 55 60

Tyr Ser Ser Leu Cys Lys Cys Cys Phe Val Leu Val Val Leu Ser Arg  
65 70 75 80

Ile Gly Ser Val Asn Glu Thr Trp Ser Cys Asn Phe Ser Ile Cys Ser  
85 90 95

Tyr Leu Ile Phe Gly Ser Pro Ile Phe Thr Ala Val Ile Pro Lys Arg  
100 105 110

Cys Ala Leu Glu Asp Ile Gln Asn Asn Pro Ile Gly Cys Leu Leu Arg  
115 120 125

Cys Thr Pro Ala Trp Glu Thr Glu Gly Asp Ser Ile Ser Lys Lys Ile  
130 135 140

Lys Lys  
145

<210> 189  
 <211> 84  
 <212> PRT  
 <213> Homo sapiens

<400> 189  
 Met Gly Ser Arg Ala Glu Leu Cys Thr Leu Leu Gly Gly Phe Ser Phe  
 1 5 10 15  
 Leu Leu Leu Leu Ile Pro Gly Glu Gly Ala Lys Gly Gly Ser Leu Arg  
 20 25 30  
 Glu Ser Gln Gly Val Cys Ser Lys Gln Thr Leu Val Val Pro Leu His  
 35 40 45  
 Tyr Asn Glu Ser Tyr Ser Gln Pro Val Tyr Lys Pro Tyr Leu Thr Leu  
 50 55 60  
 Cys Ala Gly Ser Ala Ser Ala Ala Leu Thr Gly Pro Cys Thr Ala Leu  
 65 70 75 80  
 Cys Gly Gly Arg

<210> 190  
 <211> 58  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (58)  
 <223> Xaa equals stop translation

<400> 190  
 Met Met Gly Val Leu Gln Leu Leu His Ile Phe Trp Ala Tyr Leu Ile  
 1 5 10 15  
 Leu Arg Met Ala His Lys Phe Ile Thr Gly Lys Leu Val Glu Asp Glu  
 20 25 30  
 Arg Ser Thr Gly Lys Lys Gln Arg Ala Gln Arg Gly Arg Arg Leu Gln  
 35 40 45  
 Leu Gly Glu Glu Gln Arg Ala Gly Pro Xaa  
 50 55

<210> 191  
 <211> 311  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (277)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (311)

<223> Xaa equals stop translation

<400> 191

[illegible]

<210> 192  
 <211> 318  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (318)  
 <223> Xaa equals stop translation

<400> 192  
 Met Asn Trp Glu Leu Leu Leu Trp Leu Leu Val Leu Cys Ala Leu Leu  
 1 5 10 15  
 Leu Leu Leu Val Gln Leu Leu Arg Phe Leu Arg Ala Asp Gly Asp Leu  
 20 25 30  
 Thr Leu Leu Trp Ala Glu Trp Gln Gly Arg Arg Pro Glu Trp Glu Leu  
 35 40 45  
 Thr Asp Met Val Val Trp Val Thr Gly Ala Ser Ser Gly Ile Gly Glu  
 50 55 60  
 Glu Leu Ala Tyr Gln Leu Ser Lys Leu Gly Val Ser Leu Val Leu Ser  
 65 70 75 80  
 Ala Arg Arg Val His Glu Leu Glu Arg Val Lys Arg Arg Cys Leu Glu  
 85 90 95  
 Asn Gly Asn Leu Lys Glu Lys Asp Ile Leu Val Leu Pro Leu Asp Leu  
 100 105 110  
 Thr Asp Thr Gly Ser His Glu Ala Ala Thr Lys Ala Val Leu Gln Glu  
 115 120 125  
 Phe Gly Arg Ile Asp Ile Leu Val Asn Asn Gly Gly Met Ser Gln Arg  
 130 135 140  
 Ser Leu Cys Met Asp Thr Ser Leu Asp Val Tyr Arg Lys Leu Ile Glu  
 145 150 155 160  
 Leu Asn Tyr Leu Gly Thr Val Ser Leu Thr Lys Cys Val Leu Pro His  
 165 170 175  
 Met Ile Glu Arg Lys Gln Gly Lys Ile Val Thr Val Asn Ser Ile Leu  
 180 185 190  
 Gly Ile Ile Ser Val Pro Leu Ser Ile Gly Tyr Cys Ala Ser Lys His  
 195 200 205  
 Ala Leu Arg Gly Phe Phe Asn Gly Leu Arg Thr Glu Leu Ala Thr Tyr  
 210 215 220  
 Pro Gly Ile Ile Val Ser Asn Ile Cys Pro Gly Pro Val Gln Ser Asn  
 225 230 235 240  
 Ile Val Glu Asn Ser Leu Ala Gly Glu Val Thr Lys Thr Ile Gly Asn  
 245 250 255  
 Asn Gly Asp Gln Ser His Lys Met Thr Thr Ser Arg Cys Val Arg Leu

260

265

270

Met Leu Ile Ser Met Ala Asn Asp Leu Lys Glu Val Trp Ile Ser Glu  
275 280 285

Gln Pro Phe Leu Phe Ser Asn Ile Phe Val Ala Ile His Ala Asn Leu  
290 295 300

Gly Leu Val Asp Asn Gln Gln Asp Gly Glu Glu Lys Asp Xaa  
305 310 315

&lt;210&gt; 193

&lt;211&gt; 53

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 193

Met Trp Pro Ser Phe Pro Gln Val Arg Val Gly Ser Phe Leu Phe Gly  
1 5 10 15

Ile Leu Phe Phe Ser Phe Gly Ser Ser Ser Leu Pro Pro Gly Leu Pro  
20 25 30

Pro Pro Ala Ser Leu Leu Cys Cys Ala Val Gln Trp Gly Ala Arg Ala  
35 40 45

Leu Phe Leu Pro Ala  
50

&lt;210&gt; 194

&lt;211&gt; 42

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 194

Met Leu Val Thr Cys Ser Val Cys Cys Tyr Leu Phe Trp Leu Ile Ala  
1 5 10 15

Ile Leu Ala Gln Leu Asn Pro Leu Phe Gly Pro Gln Leu Lys Asn Glu  
20 25 30

Thr Ile Trp Tyr Leu Lys Tyr His Trp Pro  
35 40

&lt;210&gt; 195

&lt;211&gt; 96

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 195

Met Gly Ala Arg Pro Gly Gly His Pro Gln Lys Trp Ser Phe Leu Trp  
1 5 10 15

Ser Leu Ala Leu Trp Leu Pro Leu Ala Leu Ser Val Ser Leu Phe Leu  
20 25 30

Gly Leu Ser Leu Ser Pro Pro Gln Pro Gly Leu Ser Leu Trp Cys Thr  
35 40 45

Asp Ser Ile Ala Thr Gln Leu Arg Glu Leu Pro Glu Lys Asn Ser Asn  
85 90 95

Asp Thr Ile Ser Gly Arg Val Asp Arg Leu Glu Arg Glu Val Asp Tyr  
85 90 95

Leu Glu Thr Gln Asn Pro Ala Leu Pro Cys Val Glu Phe Asp Glu Lys  
 100 105 110  
 Val Thr Gly Gly Pro Gly Thr Lys Gly Lys Gly Arg Arg Asn Glu Lys  
 115 120 125  
 Tyr Asp Met Val Thr Asp Cys Gly Tyr Thr Ile Ser Gln Val Arg Ser  
 130 135 140  
 Met Lys Ile Leu Lys Arg Phe Gly Gly Pro Ala Gly Leu Trp Thr Lys  
 145 150 155 160  
 Asp Pro Leu Gly Gln Thr Glu Lys Ile Tyr Val Leu Asp Gly Thr Gln  
 165 170 175  
 Asn Asp Thr Ala Phe Val Phe Pro Arg Leu Arg Asp Phe Thr Leu Ala  
 180 185 190  
 Met Ala Ala Arg Lys Ala Ser Arg Val Arg Val Pro Phe Pro Trp Val  
 195 200 205  
 Gly Thr Gly Gln Leu Val Tyr Gly Gly Phe Leu Tyr Phe Ala Arg Arg  
 210 215 220  
 Pro Pro Gly Arg Pro Gly Gly Gly Gly Glu Met Glu Asn Thr Leu Gln  
 225 230 235 240  
 Leu Ile Lys Phe His Leu Ala Asn Arg Thr Val Val Asp Ser Ser Val  
 245 250 255  
 Phe Pro Ala Glu Gly Leu Ile Pro Pro Tyr Gly Leu Thr Ala Asp Thr  
 260 265 270  
 Tyr Ile Asp Leu Ala Ala Asp Glu Glu Gly Leu Trp Ala Val Tyr Ala  
 275 280 285  
 Thr Arg Glu Asp Asp Arg His Leu Cys Leu Ala Lys Leu Asp Pro Gln  
 290 295 300  
 Thr Leu Asp Thr Glu Gln Gln Trp Asp Thr Pro Cys Pro Arg Glu Asn  
 305 310 315 320  
 Ala Glu Ala Ala Phe Val Ile Cys Gly Thr Leu Tyr Val Val Tyr Asn  
 325 330 335  
 Thr Arg Pro Ala Ser Arg Ala Arg Ile Gln Cys Ser Phe Asp Ala Ser  
 340 345 350  
 Gly Pro Xaa  
 355

&lt;210&gt; 198

&lt;211&gt; 74

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 198

Met Val Leu Pro Leu Leu Ile Phe Val Leu Leu Pro Lys Val Val Asn  
 1 5 10 15



121

Thr Ser Asp Pro Asp Met Arg Arg Glu Met Glu Gln Ser Met Asn Met  
20 25 30

Leu Asn Ser Asn His Glu Leu Pro Asp Val Ser Glu Phe Met Thr Arg  
35 40 45

Leu Phe Ser Ser Lys Ser Ser Gly Lys Ser Ser Ser Gly Ser Ser Lys  
50 55 60

Thr Gly Lys Ser Gly Ala Gly Lys Arg Arg  
65 70

<210> 199

<211> 113

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (113)

<223> Xaa equals stop translation

<400> 199

Met Phe Thr Met Leu Cys Ile Asn Gly Thr Thr Pro Arg Pro Leu Pro  
1 5 10 15

Val Pro Ser Pro Phe Gly Cys Met Ile Phe Phe Phe Phe Lys Asn Pro  
20 25 30

Trp Lys Gln Arg Leu Leu Gln Gly Trp Leu Gly Ala Arg Pro Ile His  
35 40 45

Leu Leu Gly Tyr Leu Pro Leu Ser Leu Leu Trp Cys Pro Phe Pro Leu  
50 55 60

Pro Cys Ala Arg Cys Ser Val Val Tyr Ile Ser Ser Pro Arg His Gly  
65 70 75 80

Ala His Ala Pro Arg Asp Met Ile Leu Ser Leu Val Leu Ala His Gly  
85 90 95

Ala Leu Tyr Lys Glu Leu Gly Gly Arg Gly Arg Lys Trp Glu Pro Ser  
100 105 110

Xaa

<210> 200

<211> 123

<212> PRT

<213> Homo sapiens

<400> 200

Met Ala Cys Arg Cys Leu Ser Phe Leu Leu Met Gly Thr Phe Leu Ser  
1 5 10 15

Val Ser Gln Thr Val Leu Ala Gln Leu Asp Ala Leu Leu Val Phe Pro  
20 25 30

Gly Gln Val Ala Gln Leu Ser Cys Thr Leu Ser Pro Gln His Val Thr

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35              40              45
Ile Arg Asp Tyr Gly Val Ser Trp Tyr Gln Gln Arg Ala Gly Ser Ala
  50              55              60
Pro Arg Tyr Leu Leu Tyr Tyr Arg Ser Glu Glu Asp His His Arg Pro
  65              70              75              80
Ala Asp Ile Pro Asp Arg Phe Ser Ala Ala Lys Asp Glu Ala His Asn
              85              90              95
Ala Cys Val Leu Thr Ile Ser Pro Val Gln Pro Glu Asp Asp Ala Asp
              100              105              110
Tyr Tyr Cys Ser Val Gly Tyr Gly Phe Ser Pro
              115              120

<210> 201
<211> 315
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (9)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (311)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (315)
<223> Xaa equals stop translation

<400> 201
Met Ala Gly Gly Arg Cys Gly Pro Xaa Leu Thr Ala Leu Leu Ala Ala
  1              5              10              15
Trp Ile Ala Ala Val Ala Ala Thr Ala Gly Pro Glu Glu Ala Ala Leu
              20              25              30
Pro Pro Glu Gln Ser Arg Val Gln Pro Met Thr Ala Ser Asn Trp Thr
              35              40              45
Leu Val Met Glu Gly Glu Trp Met Leu Lys Phe Tyr Ala Pro Trp Cys
              50              55              60
Pro Ser Cys Gln Gln Thr Asp Ser Glu Trp Glu Ala Phe Ala Lys Asn
              65              70              75              80
Gly Glu Ile Leu Gln Ile Ser Val Gly Lys Val Asp Val Ile Gln Glu
              85              90              95
Pro Gly Leu Ser Gly Arg Phe Phe Val Thr Thr Leu Pro Ala Phe Phe
              100              105              110
His Ala Lys Asp Gly Ile Phe Arg Arg Tyr Arg Gly Pro Gly Ile Phe
              115              120              125

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Glu Asp Leu Gln Asn Tyr Ile Leu Glu Lys Lys Trp Gln Ser Val Glu  
 130 135 140  
 Pro Leu Thr Gly Trp Lys Ser Pro Ala Ser Leu Thr Met Ser Gly Met  
 145 150 155 160  
 Ala Gly Leu Phe Ser Ile Ser Gly Lys Ile Trp His Leu His Asn Tyr  
 165 170 175  
 Phe Thr Val Thr Leu Gly Ile Pro Ala Trp Cys Ser Tyr Val Phe Phe  
 180 185 190  
 Val Ile Ala Thr Leu Val Phe Gly Leu Phe Met Gly Leu Val Leu Val  
 195 200 205  
 Val Ile Ser Glu Cys Phe Tyr Val Pro Leu Pro Arg His Leu Ser Glu  
 210 215 220  
 Arg Ser Glu Gln Asn Arg Arg Ser Glu Glu Ala His Arg Ala Glu Gln  
 225 230 235 240  
 Leu Gln Asp Ala Glu Glu Glu Lys Asp Asp Ser Asn Glu Glu Glu Asn  
 245 250 255  
 Lys Asp Ser Leu Val Asp Asp Glu Glu Glu Lys Glu Asp Leu Gly Asp  
 260 265 270  
 Glu Asp Glu Ala Glu Glu Glu Glu Glu Asp Asn Leu Ala Ala Gly  
 275 280 285  
 Val Asp Glu Glu Arg Ser Glu Ala Asn Asp Gln Gly Pro Pro Gly Glu  
 290 295 300  
 Asp Gly Val Thr Arg Glu Xaa Ser Arg Ala Xaa  
 305 310 315

&lt;210&gt; 202

&lt;211&gt; 236

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (236)

&lt;223&gt; Xaa equals stop translation

&lt;400&gt; 202

Met Gly Thr Ala Asp Ser Asp Glu Met Ala Pro Glu Ala Pro Gln His  
 1 5 10 15

Thr His Ile Asp Val His Ile His Gln Glu Ser Ala Leu Ala Lys Leu  
 20 25 30

Leu Leu Thr Cys Cys Ser Ala Leu Arg Pro Arg Ala Thr Gln Ala Arg  
 35 40 45

Gly Ser Ser Arg Leu Leu Val Ala Ser Trp Val Met Gln Ile Val Leu  
 50 55 60

Gly Ile Leu Ser Ala Val Leu Gly Gly Phe Phe Tyr Ile Arg Asp Tyr

65                      70                      75                      80

Thr Leu Leu Val Thr Ser Gly Ala Ala Ile Trp Thr Gly Ala Val Ala  
85                      90                      95

Val Leu Ala Gly Ala Ala Ala Phe Ile Tyr Glu Lys Arg Gly Gly Thr  
100                      105                      110

Tyr Trp Ala Leu Leu Arg Thr Leu Leu Ala Leu Ala Ala Phe Ser Thr  
115                      120                      125

Ala Ile Ala Ala Leu Lys Leu Trp Asn Glu Asp Phe Arg Tyr Gly Tyr  
130                      135                      140

Ser Tyr Tyr Asn Ser Ala Cys Arg Ile Ser Ser Ser Ser Asp Trp Asn  
145                      150                      155                      160

Thr Pro Ala Pro Thr Gln Ser Pro Glu Glu Val Arg Arg Leu His Leu  
165                      170                      175

Cys Thr Ser Phe Met Asp Met Leu Lys Ala Leu Phe Arg Thr Leu Gln  
180                      185                      190

Ala Met Leu Leu Gly Val Trp Ile Leu Leu Leu Leu Ala Ser Leu Ala  
195                      200                      205

Pro Leu Trp Leu Tyr Cys Trp Arg Met Phe Pro Thr Lys Gly Lys Arg  
210                      215                      220

Asp Gln Lys Glu Met Leu Glu Val Ser Gly Ile Xaa  
225                      230                      235

<210> 203  
<211> 93  
<212> PRT  
<213> Homo sapiens

<400> 203  
Met Ile His Leu Gly His Ile Leu Phe Leu Leu Leu Pro Val Ala  
1                      5                      10                      15

Ala Ala Gln Thr Thr Pro Gly Glu Arg Ser Ser Leu Pro Ala Phe Tyr  
20                      25                      30

Pro Gly Thr Ser Gly Ser Cys Ser Gly Cys Gly Ser Leu Ser Leu Pro  
35                      40                      45

Leu Leu Ala Gly Leu Val Ala Ala Asp Ala Val Ala Ser Leu Leu Ile  
50                      55                      60

Val Gly Ala Val Phe Leu Cys Ala Arg Pro Arg Arg Ser Pro Ala Gln  
65                      70                      75                      80

Glu Asp Gly Lys Val Tyr Ile Asn Met Pro Gly Arg Gly  
85                      90

<210> 204  
<211> 35  
<212> PRT  
<213> Homo sapiens

&lt;400&gt; 204

Met Trp Ser Ala Gly Arg Gly Gly Ala Ala Trp Pro Val Leu Leu Gly  
 1 5 10 15

Leu Leu Leu Ala Leu Leu Val Pro Gly Gly Gly Ala Ala Lys Thr Gly  
 20 25 30

Ala Asp Ser  
 35

&lt;210&gt; 205

&lt;211&gt; 43

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (3)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 205

Asp Cys Xaa His Val Ser Val Leu Gln Ser Thr Ile Ser Pro Leu Leu  
 1 5 10 15

Pro Leu Pro Leu Leu Leu Pro His Gly Asn Cys Glu Glu Ala Pro Trp  
 20 25 30

Gln Ala Ala Val Ile Gly Gly Gly Asp Arg Ile  
 35 40

&lt;210&gt; 206

&lt;211&gt; 85

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (85)

&lt;223&gt; Xaa equals stop translation

&lt;400&gt; 206

Met Arg Asp Cys Leu Ser Leu Lys Pro Arg Pro Leu Phe Pro Thr Gln  
 1 5 10 15

Phe Phe Phe Ile Leu Leu Leu Ile Phe Ile Ala Glu Val Ala Ala Ala  
 20 25 30

Val Val Ala Leu Val Tyr Thr Thr Met Val Arg His Trp Asp Gly Gly  
 35 40 45

Arg Glu Glu Asp Trp Ala Lys Pro Trp Glu Trp Ala Val Ala Cys Glu  
 50 55 60

Trp Pro Pro Ser Val Pro Ala Pro Lys His Trp Pro Ala Ser Pro Arg  
 65 70 75 80

Leu Ser Thr Ser Xaa  
 85

<210> 207  
 <211> 208  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (26)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (81)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 207  
 Met His Gly Asn Glu Ala Leu Gly Arg Glu Leu Leu Leu Leu Met  
 1 5 10 15  
 Gln Phe Leu Cys His Glu Phe Leu Arg Xaa Asn Pro Arg Val Thr Arg  
 20 25 30  
 Leu Leu Ser Glu Met Arg Ile His Leu Leu Pro Ser Met Asn Pro Asp  
 35 40 45  
 Gly Tyr Glu Ile Ala Tyr His Arg Gly Ser Glu Leu Val Gly Trp Ala  
 50 55 60  
 Glu Gly Arg Trp Asn Asn Gln Ser Ile Asp Leu Asn His Asn Phe Ala  
 65 70 75 80  
 Xaa Leu Asn Thr Pro Leu Trp Glu Ala Gln Asp Asp Gly Lys Val Pro  
 85 90 95  
 His Ile Val Pro Asn His His Leu Pro Leu Pro Thr Tyr Tyr Thr Leu  
 100 105 110  
 Pro Asn Ala Thr Val Ala Pro Glu Thr Arg Ala Val Ile Lys Trp Met  
 115 120 125  
 Lys Arg Ile Pro Phe Val Leu Ser Ala Asn Leu His Gly Gly Glu Leu  
 130 135 140  
 Val Val Ser Tyr Pro Phe Asp Met Thr Arg Thr Pro Trp Ala Ala Arg  
 145 150 155 160  
 Glu Leu Thr Pro Thr Pro Asp Asp Ala Val Phe Arg Trp Leu Ser Thr  
 165 170 175  
 Val Tyr Ala Gly Ser Asn Leu Ala Met Gln Asp Thr Ser Arg Arg Pro  
 180 185 190  
 Cys His Ser Gln Asp Phe Ser Val His Gly Asn Ile Ile Asn Gly Ala  
 195 200 205

<210> 208  
 <211> 24

<212> PRT  
<213> Homo sapiens

<400> 208  
Met Glu Ile Ser Cys Leu Leu Leu Ile Gln Asp Ser Asp Glu Met  
1 5 10 15

Glu Asp Gly Pro Gly Val Gln Asp  
20

<210> 209  
<211> 483  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (29)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (483)  
<223> Xaa equals stop translation

<400> 209  
Met Ala Thr Gly Gly Gly Ile Arg Ala Met Thr Ser Leu Tyr Gly Gln  
1 5 10 15

Leu Ala Gly Leu Lys Glu Leu Gly Leu Leu Asp Cys Xaa Ser Tyr Ile  
20 25 30

Thr Gly Ala Ser Gly Ser Thr Trp Ala Leu Ala Asn Leu Tyr Lys Asp  
35 40 45

Pro Glu Trp Ser Gln Lys Asp Leu Ala Gly Pro Thr Glu Leu Leu Lys  
50 55 60

Thr Gln Val Thr Lys Asn Lys Leu Gly Val Leu Ala Pro Ser Gln Leu  
65 70 75 80

Gln Arg Tyr Arg Gln Glu Leu Ala Glu Arg Ala Arg Leu Gly Tyr Pro  
85 90 95

Ser Cys Phe Thr Asn Leu Trp Ala Leu Ile Asn Glu Ala Leu Leu His  
100 105 110

Asp Glu Pro His Asp His Lys Leu Ser Asp Gln Arg Glu Ala Leu Ser  
115 120 125

His Gly Gln Asn Pro Leu Pro Ile Tyr Cys Ala Leu Asn Thr Lys Gly  
130 135 140

Gln Ser Leu Thr Thr Phe Glu Phe Gly Glu Trp Cys Glu Phe Ser Pro  
145 150 155 160

Tyr Glu Val Gly Phe Pro Lys Tyr Gly Ala Phe Ile Pro Ser Glu Leu  
165 170 175

Phe Gly Ser Glu Phe Phe Met Gly Gln Leu Met Lys Arg Leu Pro Glu  
180 185 190

Ser Arg Ile Cys Phe Leu Glu Gly Ile Trp Ser Asn Leu Tyr Ala Ala  
 195 200 205  
 Asn Leu Gln Asp Ser Leu Tyr Trp Ala Ser Glu Pro Ser Gln Phe Trp  
 210 215 220  
 Asp Arg Trp Val Arg Asn Gln Ala Asn Leu Asp Lys Glu Gln Val Pro  
 225 230 235 240  
 Leu Leu Lys Ile Glu Glu Pro Pro Ser Thr Ala Gly Arg Ile Ala Glu  
 245 250 255  
 Phe Phe Thr Asp Leu Leu Thr Trp Arg Pro Leu Ala Gln Ala Thr His  
 260 265 270  
 Asn Phe Leu Arg Gly Leu His Phe His Lys Asp Tyr Phe Gln His Pro  
 275 280 285  
 His Phe Ser Thr Trp Lys Ala Thr Thr Leu Asp Gly Leu Pro Asn Gln  
 290 295 300  
 Leu Thr Pro Ser Glu Pro His Leu Cys Leu Leu Asp Val Gly Tyr Leu  
 305 310 315 320  
 Ile Asn Thr Ser Cys Leu Pro Leu Leu Gln Pro Thr Arg Asp Val Asp  
 325 330 335  
 Leu Ile Leu Ser Leu Asp Tyr Asn Leu His Gly Ala Phe Gln Gln Leu  
 340 345 350  
 Gln Leu Leu Gly Arg Phe Cys Gln Glu Gln Gly Ile Pro Phe Pro Pro  
 355 360 365  
 Ile Ser Pro Ser Pro Glu Glu Gln Leu Gln Pro Arg Glu Cys His Thr  
 370 375 380  
 Phe Ser Asp Pro Thr Cys Pro Gly Ala Pro Ala Val Leu His Phe Pro  
 385 390 395 400  
 Leu Val Ser Asp Ser Phe Arg Glu Tyr Ser Ala Pro Gly Val Arg Arg  
 405 410 415  
 Thr Pro Glu Glu Ala Ala Ala Gly Glu Val Asn Leu Ser Ser Ser Asp  
 420 425 430  
 Ser Pro Tyr His Tyr Thr Lys Val Thr Tyr Ser Gln Glu Asp Val Asp  
 435 440 445  
 Lys Leu Leu His Leu Thr His Tyr Asn Val Cys Asn Asn Gln Glu Gln  
 450 455 460  
 Leu Leu Glu Ala Leu Arg Gln Ala Val Gln Arg Arg Arg Gln Arg Arg  
 465 470 475 480  
 Pro His Xaa

&lt;210&gt; 210

&lt;211&gt; 13

&lt;212&gt; PRT



<213> Homo sapiens

<400> 210

Leu Glu Val Gly Cys Ile Gln Val Ala Pro Asp Thr Phe  
1 5 10

<210> 211

<211> 20

<212> PRT

<213> Homo sapiens

<400> 211

Met Ser Leu Phe Phe Leu Leu Thr Leu Ile Ser Lys Leu His Gly Asp  
1 5 10 15

Ala Glu Val Cys  
20

<210> 212

<211> 55

<212> PRT

<213> Homo sapiens

<400> 212

Met Pro His Pro Pro Leu Pro Glu Thr Ser Leu Glu Ala Gln Leu Pro  
1 5 10 15

Met Gly Leu Leu Gln Leu Leu Arg Cys Ser Val Gln Ala Trp Ser Pro  
20 25 30

Pro Pro Ser Ser Phe Cys Pro Gly Ser Glu Pro Arg Ser Ala Ser Ala  
35 40 45

His Trp Gly Tyr Trp Trp Pro  
50 55

<210> 213

<211> 35

<212> PRT

<213> Homo sapiens

<400> 213

Asp Pro Glu Thr Arg Trp His His Gly Gly Ser Ala Gln Asn Gly Leu  
1 5 10 15

Leu Met Leu Ile Ser Val Leu Gln Gln Pro Val Ile Gly Thr Gly Ser  
20 25 30

Tyr Leu Cys  
35

<210> 214

<211> 230

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

&lt;222&gt; (192)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 214

Met Glu Pro Leu Leu Arg Leu Leu Ile Leu Leu Phe Val Thr Glu Leu Ser  
 1 5 10 15

Gly Ala His Asn Thr Thr Val Phe Gln Gly Val Ala Gly Gln Ser Leu  
 20 25 30

Gln Val Ser Cys Pro Tyr Asp Ser Met Lys His Trp Gly Arg Arg Lys  
 35 40 45

Ala Trp Cys Arg Gln Leu Gly Glu Lys Gly Pro Cys Gln Arg Val Val  
 50 55 60

Ser Thr His Asn Leu Trp Leu Leu Ser Phe Leu Arg Arg Trp Asn Gly  
 65 70 75 80

Ser Thr Ala Ile Thr Asp Asp Thr Leu Gly Gly Thr Leu Thr Ile Thr  
 85 90 95

Leu Arg Asn Leu Gln Pro His Asp Ala Gly Leu Tyr Gln Cys Gln Ser  
 100 105 110

Leu His Gly Ser Glu Ala Asp Thr Leu Arg Lys Val Leu Val Glu Val  
 115 120 125

Leu Ala Asp Pro Leu Asp His Arg Asp Ala Gly Asp Leu Trp Phe Pro  
 130 135 140

Gly Glu Ser Glu Ser Phe Glu Asp Ala His Val Glu His Ser Ile Ser  
 145 150 155 160

Arg Ser Leu Leu Glu Gly Glu Ile Pro Phe Pro Pro Thr Ser Ile Leu  
 165 170 175

Leu Leu Leu Ala Cys Ile Phe Leu Ile Lys Ile Leu Ala Ala Ser Xaa  
 180 185 190

Leu Trp Ala Ala Ala Trp His Gly Gln Lys Pro Gly Thr His Pro Pro  
 195 200 205

Ser Glu Leu Asp Cys Gly His Asp Pro Gly Tyr Gln Leu Gln Thr Leu  
 210 215 220

Pro Gly Leu Arg Asp Thr  
 225 230

&lt;210&gt; 215

&lt;211&gt; 231

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (231)

&lt;223&gt; Xaa equals stop translation

&lt;400&gt; 215

Met Glu Pro Leu Arg Leu Leu Ile Leu Leu Phe Val Thr Glu Leu Ser

131  
 1 5 10 15  
 Gly Ala His Asn Thr Thr Val Phe Gln Gly Val Ala Gly Gln Ser Leu  
 20 25 30  
 Gln Val Ser Cys Pro Tyr Asp Ser Met Lys His Trp Gly Arg Arg Lys  
 35 40 45  
 Ala Trp Cys Arg Gln Leu Gly Glu Lys Gly Pro Cys Gln Arg Val Val  
 50 55 60  
 Ser Thr His Asn Leu Trp Leu Leu Ser Phe Leu Arg Arg Trp Asn Gly  
 65 70 75 80  
 Ser Thr Ala Ile Thr Asp Asp Thr Leu Gly Gly Thr Leu Thr Ile Thr  
 85 90 95  
 Leu Arg Asn Leu Gln Pro His Asp Ala Gly Leu Tyr Gln Cys Gln Ser  
 100 105 110  
 Leu His Gly Ser Glu Ala Asp Thr Leu Arg Lys Val Leu Val Glu Val  
 115 120 125  
 Leu Ala Asp Pro Leu Asp His Arg Asp Ala Gly Asp Leu Trp Phe Pro  
 130 135 140  
 Gly Glu Ser Glu Ser Phe Glu Asp Ala His Val Glu His Ser Ile Ser  
 145 150 155 160  
 Arg Ser Leu Leu Glu Gly Glu Ile Pro Phe Pro Pro Thr Ser Ile Leu  
 165 170 175  
 Leu Leu Leu Ala Cys Ile Phe Leu Ile Lys Ile Leu Ala Ala Ser Ala  
 180 185 190  
 Leu Trp Ala Ala Ala Trp His Gly Gln Lys Pro Gly Thr His Pro Pro  
 195 200 205  
 Ser Glu Leu Asp Cys Gly His Asp Pro Gly Tyr Gln Leu Gln Thr Leu  
 210 215 220  
 Pro Gly Leu Arg Asp Thr Xaa  
 225 230

<210> 216

<211> 127

<212> PRT

<213> Homo sapiens

<400> 216

Met Gly Leu Thr Gly Phe Gly Val Phe Phe Leu Phe Phe Gly Met Ile  
 1 5 10 15

Leu Phe Phe Asp Lys Ala Leu Leu Ala Ile Gly Asn Val Leu Phe Val  
 20 25 30

Ala Gly Leu Ala Phe Val Ile Gly Leu Glu Arg Thr Phe Arg Phe Phe  
 35 40 45

Phe Gln Lys His Lys Met Lys Ala Thr Gly Phe Phe Leu Gly Gly Val  
 50 55 60

Phe Val Val Leu Ile Gly Trp Pro Leu Ile Gly Met Ile Phe Glu Ile  
65 70 75 80

Tyr Gly Phe Phe Leu Leu Phe Arg Gly Phe Phe Pro Val Val Val Gly  
85 90 95

Phe Ile Arg Arg Val Pro Val Leu Gly Ser Leu Leu Asn Leu Pro Gly  
100 105 110

Ile Arg Ser Phe Val Asp Lys Val Gly Glu Ser Asn Asn Met Val  
115 120 125

<210> 217

<211> 47

<212> PRT

<213> Homo sapiens

<400> 217

Met Ile Arg Lys Leu His Lys Ile Ile Val Phe Ser Pro Arg Val Ile  
1 5 10 15

Val Leu Leu Asn Cys Phe Phe Phe Ile Lys Ala Lys Phe Val Leu Tyr  
20 25 30

Ile Phe Val Phe His Val Leu Asp Gly Ser Ile Ser Tyr Pro Val  
35 40 45

<210> 218

<211> 41

<212> PRT

<213> Homo sapiens

<400> 218

Met Leu Leu Asn Gln His Phe Lys Ile Phe Gly Ser Leu Ile His Met  
1 5 10 15

Asn Leu Leu Phe Ala Leu Ile Ser Leu Gly Ser Ser Asn Leu Ser Gly  
20 25 30

Val Gln Phe Cys Cys Glu Thr Val Gln  
35 40

<210> 219

<211> 105

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (10)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 219

Met Gln Pro Leu Asn Phe Ser Ser Thr Xaa Cys Ser Ser Phe Ser Pro  
1 5 10 15

Pro Thr Thr Val Ile Leu Leu Ile Leu Leu Cys Phe Glu Gly Leu Leu  
20 25 30

Phe Leu Ile Phe Thr Ser Val Met Phe Gly Thr Gln Val His Ser Ile  
35 40 45

Cys Thr Asp Glu Thr Gly Ile Glu Gln Leu Lys Lys Glu Glu Arg Arg  
50 55 60

Trp Ala Lys Lys Thr Lys Trp Met Asn Met Lys Ala Val Phe Gly His  
65 70 75 80

Pro Phe Ser Leu Gly Trp Ala Ser Pro Phe Ala Thr Pro Asp Gln Gly  
85 90 95

Lys Ala Asp Pro Tyr Gln Tyr Val Val  
100 105

<210> 220

<211> 29

<212> PRT

<213> Homo sapiens

<400> 220

Met Tyr Thr Asn His Phe Asn Leu Tyr Leu Lys Tyr Ile Leu Leu Ile  
1 5 10 15

Ile Leu Ile Leu Asn Met Thr Asn Ser Ser Arg Tyr  
20 25

<210> 221

<211> 17

<212> PRT

<213> Homo sapiens

<400> 221

Met Asn Glu Leu Leu Leu Phe Phe Phe Phe Phe Phe Leu His Phe  
1 5 10 15

Val

<210> 222

<211> 138

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (63)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 222

Met Lys Phe Thr Thr Leu Leu Phe Leu Ala Ala Val Ala Gly Ala Leu  
1 5 10 15

Val Tyr Ala Glu Asp Ala Ser Ser Asp Ser Thr Gly Ala Asp Pro Ala  
20 25 30

Gln Glu Ala Gly Thr Ser Lys Pro Asn Glu Glu Ile Ser Gly Pro Ala  
35 40 45

<222> (128)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (135)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (136)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (155)

<223> Xaa equals stop translation

<400> 225

Met Gly Phe Gly Ala Thr Leu Ala Val Gly Leu Thr Ile Phe Val Leu  
1 5 10 15

Ser Val Val Thr Ile Ile Ile Cys Phe Thr Cys Ser Cys Cys Cys Leu  
20 25 30

Tyr Lys Thr Cys Arg Arg Pro Arg Pro Val Val Thr Thr Thr Ser  
35 40 45

Thr Thr Val Val His Ala Pro Tyr Pro Gln Pro Pro Ser Val Pro Pro  
50 55 60

Ser Tyr Pro Gly Pro Ser Tyr Gln Gly Tyr His Thr Met Pro Pro Gln  
65 70 75 80

Pro Gly Met Pro Ala Ala Pro Tyr Pro Met Gln Tyr Pro Pro Tyr  
85 90 95

Pro Ala Gln Pro Met Gly Pro Pro Ala Tyr His Glu Thr Leu Ala Gly  
100 105 110

Gly Ala Ala Ala Pro Tyr Pro Ala Ser Gln Pro Pro Tyr Asn Pro Xaa  
115 120 125

Tyr Met Asp Ala Pro Lys Xaa Xaa Ser Glu His Ser Leu Ala Ser Leu  
130 135 140

Ala Ala Thr Trp Leu Cys Cys Val Cys Ala Xaa  
145 150 155

<210> 226

<211> 10

<212> PRT

<213> Homo sapiens

<400> 226

Met Gly Phe Gly Ala Thr Leu Ala Val Gly  
1 5 10

<210> 227

<211> 20

<212> PRT

<400> 227

Cys Tyr Ser Phe  
20

<211> 94

<213> Homo sapiens

&lt;221&gt; SITE

<222> (94)

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<223> Xaa equals stop translation
```

Met Ser Phe Ser Phe Ile Ile Phe Leu Leu Leu Val Cys Gln Glu Ile  
1 5 10 15

Thr Phe Cys Met Ser Tyr Gly Asp Ala Val Asn Cys Phe Ser Glu Cys  
20 25 30

Phe Ser Asn Leu Gln Thr Ile Tyr Ile Ser Cys Leu Gln His Ala Val  
35 40 45

Cys Lys His Ser Val Ile Trp Ser Ile Gln Leu Phe Val Arg Ala Leu  
50 55 60

Pro Ile Ser Lys Cys Ala Glu Leu Ser Ile Asp Gly Ile Phe Arg Ser  
65 70 75 80

Phe His Glu Asn Trp Lys Cys Ser Trp Val Ala Pro Thr Xaa  
85 90

&lt;211&gt; 94

&lt;212&gt; PRT

<213> Homo sapiens

&lt;221&gt; SITE

&lt;222&gt; (94)

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<223> Xaa equals stop translation
```

Met Ser Phe Ser Phe Ile Ile Phe Leu Leu Leu Val Cys Gln Glu Ile  
1 5 10 15

Thr Phe Cys Met Ser Tyr Gly Asp Ala Val Asn Cys Phe Ser Glu Cys  
20 25 30

Phe Ser Asn Leu Gln Thr Ile Tyr Ile Ser Cys Leu Gln His Ala Val  
35 40 45

Cys Lys His Ser Val Ile Trp Ser Ile Gln Leu Phe Val Arg Ala Leu  
50 55 60



Pro Ile Ser Lys Cys Ala Glu Leu Ser Ile Asp Gly Ile Phe Arg Ser  
65 70 75 80

Phe His Glu Asn Trp Lys Cys Ser Trp Val Ala Pro Thr Xaa  
85 90

<210> 230

<211> 37

<212> PRT

<213> Homo sapiens

<400> 230

Met Gly Trp Ser Ala Gly Leu Leu Phe Leu Leu Ile Leu Tyr Leu Pro  
1 5 10 15

Val Pro Gly Trp Met Glu Arg Glu Asp Gly Gly Asp Gly Thr Ser Phe  
20 25 30

Thr Ser Gly Ser Trp  
35

<210> 231

<211> 81

<212> PRT

<213> Homo sapiens

<400> 231

Met Ala Thr Leu Trp Gly Gly Leu Leu Arg Leu Gly Ser Leu Leu Ser  
1 5 10 15

Leu Ser Cys Leu Ala Leu Ser Val Leu Leu Ala His Val Gln Thr  
20 25 30

Pro Pro Arg Ile Ser Arg Met Ser Asp Val Asn Val Ser Ala Leu Pro  
35 40 45

Ile Lys Lys Ile Leu Gly Ile Phe Ile Ile Arg Thr Tyr Leu Arg Lys  
50 55 60

Ile Val Ile Ala Phe Met Leu Trp Ser Pro Cys Leu Cys Gly Gly Leu  
65 70 75 80

Met

<210> 232

<211> 301

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (48)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (234)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 232

Met Asp Ala Arg Trp Trp Ala Val Val Val Leu Ala Ala Phe Pro Ser  
1 5 10 15

Leu Gly Ala Gly Gly Glu Thr Pro Glu Ala Pro Pro Glu Ser Trp Thr  
20 25 30

Gln Leu Trp Phe Phe Arg Phe Val Val Asn Ala Ala Gly Tyr Ala Xaa  
35 40 45

Phe Met Val Pro Gly Tyr Leu Leu Val Gln Tyr Phe Arg Arg Lys Asn  
50 55 60

Tyr Leu Glu Thr Gly Arg Gly Leu Cys Phe Pro Leu Val Lys Ala Cys  
65 70 75 80

Val Phe Gly Asn Glu Pro Lys Ala Ser Asp Glu Val Pro Leu Ala Pro  
85 90 95

Arg Thr Glu Ala Ala Glu Thr Thr Pro Met Trp Gln Ala Leu Lys Leu  
100 105 110

Leu Phe Cys Ala Thr Gly Leu Gln Val Ser Tyr Leu Thr Trp Gly Val  
115 120 125

Leu Gln Glu Arg Val Met Thr Arg Ser Tyr Gly Ala Thr Ala Thr Ser  
130 135 140

Pro Gly Glu Arg Phe Thr Asp Ser Gln Phe Leu Val Leu Met Asn Arg  
145 150 155 160

Val Leu Ala Leu Ile Val Ala Gly Leu Ser Cys Val Leu Cys Lys Gln  
165 170 175

Pro Arg His Gly Ala Pro Met Tyr Arg Tyr Ser Phe Ala Ser Leu Ser  
180 185 190

Asn Val Leu Ser Ser Trp Cys Gln Tyr Glu Ala Leu Lys Phe Val Ser  
195 200 205

Phe Pro Thr Gln Val Leu Ala Lys Ala Ser Lys Val Ile Pro Val Met  
210 215 220

Leu Met Gly Lys Leu Val Ser Arg Arg Xaa Asn Glu His Trp Glu Tyr  
225 230 235 240

Leu Thr Ala Thr Leu Ile Ser Ile Gly Val Ser Met Phe Leu Leu Ser  
245 250 255

Ser Gly Pro Glu Pro Arg Ser Ser Pro Ala Thr Thr Leu Ser Gly Leu  
260 265 270

Ile Leu Leu Ala Gly Tyr Ile Ala Phe Asp Ser Phe Thr Ser Asn Trp  
275 280 285

Gln Asp Ala Cys Leu Pro Ile Arg Cys His Arg Cys Arg  
290 295 300

<210> 233

<211> 313  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (186)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (294)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 233  
 Met Ser Asp Leu Leu Leu Leu Gly Leu Ile Gly Gly Leu Thr Leu Leu  
 1 5 10 15  
 Leu Leu Leu Thr Leu Leu Ala Phe Ala Gly Tyr Ser Gly Leu Leu Ala  
 20 25 30  
 Gly Val Glu Val Ser Ala Gly Ser Pro Pro Ile Arg Asn Val Thr Val  
 35 40 45  
 Ala Tyr Lys Phe His Met Gly Leu Tyr Gly Glu Thr Gly Arg Leu Phe  
 50 55 60  
 Thr Glu Ser Cys Ser Ile Ser Pro Lys Leu Arg Ser Ile Ala Val Tyr  
 65 70 75 80  
 Tyr Asp Asn Pro His Met Val Pro Pro Asp Lys Cys Arg Cys Ala Val  
 85 90 95  
 Gly Ser Ile Leu Ser Glu Gly Glu Glu Ser Pro Ser Pro Glu Leu Ile  
 100 105 110  
 Asp Leu Tyr Gln Lys Phe Gly Phe Lys Val Phe Ser Phe Pro Ala Pro  
 115 120 125  
 Ser His Val Val Thr Ala Thr Phe Pro Tyr Thr Thr Ile Leu Ser Ile  
 130 135 140  
 Trp Leu Ala Thr Arg Arg Val His Pro Ala Leu Asp Thr Tyr Ile Lys  
 145 150 155 160  
 Glu Arg Lys Leu Cys Ala Tyr Pro Arg Leu Glu Ile Tyr Gln Glu Asp  
 165 170 175  
 Gln Ile His Phe Met Cys Pro Leu Ala Xaa Gln Gly Asp Phe Tyr Val  
 180 185 190  
 Pro Glu Met Lys Glu Thr Glu Trp Lys Trp Arg Gly Leu Val Glu Ala  
 195 200 205  
 Ile Asp Thr Gln Val Asp Gly Thr Gly Ala Asp Thr Met Ser Asp Thr  
 210 215 220  
 Ser Ser Val Ser Leu Glu Val Ser Pro Gly Ser Arg Glu Thr Ser Ala  
 225 230 235 240  
 Ala Thr Leu Ser Pro Gly Ala Ser Ser Arg Gly Trp Asp Asp Gly Asp  
 245 250 255

Thr Arg Ser Glu His Ser Tyr Ser Glu Ser Gly Ala Ser Gly Ser Ser  
260 265 270

Phe Glu Glu Leu Asp Leu Glu Gly Glu Pro Leu Gly Glu Ser Arg  
275 280 285

Leu Asp Pro Gly Thr Xaa Pro Leu Gly Thr Thr Lys Trp Leu Trp Glu  
290 295 300

Pro Thr Ala Pro Glu Lys Gly Lys Glu  
305 310

<210> 234

<211> 48

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (35)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 234

Pro Gln Ser Leu Ile Leu His Leu Leu Leu Phe Phe Phe Leu Leu Phe  
1 5 10 15

Leu Phe Phe Ile Phe Ile Phe Leu Phe Phe Leu Gln Cys Leu Thr Phe  
20 25 30

Leu Phe Xaa Lys Pro Arg Gly Arg Tyr His Gly Leu Cys Phe Lys Phe  
35 40 45

<210> 235

<211> 34

<212> PRT

<213> Homo sapiens

<400> 235

Pro Ala Leu Arg Pro Ala Leu Leu Trp Ala Leu Leu Ala Leu Trp Leu  
1 5 10 15

Cys Cys Ala Thr Pro Arg Met His Cys Ser Val Glu Met Ala Met Asn  
20 25 30

Pro Val

<210> 236

<211> 313

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (264)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 236

Met Thr Arg Gly Gly Pro Gly Gly Arg Pro Gly Leu Pro Gln Pro Pro  
1 5 10 15

Pro Leu Leu Leu Leu Leu Leu Xaa Leu Leu Val Thr Ala Glu  
20 25 30

Pro Pro Lys Pro Ala Gly Val Tyr Tyr Ala Thr Ala Tyr Trp Met Pro  
35 40 45

Ala Glu Lys Thr Val Gln Val Lys Asn Val Met Asp Lys Asn Gly Asp  
50 55 60

Ala Tyr Gly Phe Tyr Asn Asn Ser Val Lys Thr Thr Gly Trp Gly Ile  
65 70 75 80

Leu Glu Ile Arg Ala Gly Tyr Gly Ser Gln Thr Leu Ser Asn Glu Ile  
85 90 95

Ile Met Phe Val Ala Gly Phe Leu Glu Gly Tyr Leu Thr Ala Pro His  
100 105 110

Met Asn Asp His Tyr Thr Asn Leu Tyr Pro Gln Leu Ile Thr Lys Pro  
115 120 125

Ser Ile Met Asp Lys Val Gln Asp Phe Met Glu Lys Gln Asp Lys Trp  
130 135 140

Thr Arg Lys Asn Ile Lys Glu Tyr Lys Thr Asp Ser Phe Trp Arg His  
145 150 155 160

Thr Gly Tyr Val Met Ala Gln Ile Asp Gly Leu Tyr Val Gly Ala Lys  
165 170 175

Lys Arg Ala Ile Leu Glu Gly Thr Lys Pro Met Thr Leu Phe Gln Ile  
180 185 190

Gln Phe Leu Asn Ser Val Gly Asp Leu Leu Asp Leu Ile Pro Ser Leu  
195 200 205

Ser Pro Thr Lys Asn Gly Ser Leu Lys Val Phe Lys Arg Trp Asp Met  
210 215 220

Gly His Cys Ser Ala Leu Ile Lys Val Leu Pro Gly Phe Glu Asn Ile  
225 230 235 240

Leu Phe Ala His Ser Ser Trp Tyr Thr Tyr Ala Ala Met Leu Arg Ile  
245 250 255

Tyr Lys His Trp Asp Phe Asn Xaa Ile Asp Lys Asp Thr Ser Ser Ser  
260 265 270

Arg Leu Ser Phe Ser Ser Tyr Pro Gly Phe Leu Glu Ser Leu Asp Asp  
275 280 285

Phe Tyr Ile Leu Ser Ser Gly Leu Ile Leu Leu Gln Thr Thr Asn Ser  
290 295 300

Val Phe Asn Lys Thr Leu Leu Lys Gln  
305 310

<210> 237

<211> 296

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (38)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (296)

<223> Xaa equals stop translation

<400> 237

Met Leu Gln Gly Pro Gly Ser Leu Leu Leu Leu Phe Leu Ala Ser His  
1 5 10 15

Cys Cys Leu Gly Ser Ala Arg Gly Leu Phe Leu Phe Gly Gln Pro Asp  
20 25 30

Phe Ser Tyr Lys Arg Xaa Asn Cys Lys Pro Ile Pro Val Asn Leu Gln  
35 40 45

Leu Cys His Gly Ile Glu Tyr Gln Asn Met Arg Leu Pro Asn Leu Leu  
50 55 60

Gly His Glu Thr Met Lys Glu Val Leu Glu Gln Ala Gly Ala Trp Ile  
65 70 75 80

Pro Leu Val Met Lys Gln Cys His Pro Asp Thr Lys Lys Phe Leu Cys  
85 90 95

Ser Leu Phe Ala Pro Val Cys Leu Asp Asp Leu Asp Glu Thr Ile Gln  
100 105 110

Pro Cys His Ser Leu Cys Val Gln Val Lys Asp Arg Cys Ala Pro Val  
115 120 125

Met Ser Ala Phe Gly Phe Pro Trp Pro Asp Met Leu Glu Cys Asp Arg  
130 135 140

Phe Pro Gln Asp Asn Asp Leu Cys Ile Pro Leu Ala Ser Ser Asp His  
145 150 155 160

Leu Leu Pro Ala Thr Glu Glu Ala Pro Lys Val Cys Glu Ala Cys Lys  
165 170 175

Asn Lys Asn Asp Asp Asp Asn Asp Ile Met Glu Thr Leu Cys Lys Asn  
180 185 190

Asp Phe Ala Leu Lys Ile Lys Val Lys Glu Ile Thr Tyr Ile Asn Arg  
195 200 205

Asp Thr Lys Ile Ile Leu Glu Thr Lys Ser Lys Thr Ile Tyr Lys Leu  
210 215 220

Asn Gly Val Ser Glu Arg Asp Leu Lys Lys Ser Val Leu Trp Leu Lys  
225 230 235 240

Asp Ser Leu Gln Cys Thr Cys Glu Glu Met Asn Asp Ile Asn Ala Pro  
245 250 255

Tyr Leu Val Met Gly Gln Lys Gln Gly Gly Glu Leu Val Ile Thr Ser  
260 265 270

Val Lys Arg Trp Gln Lys Gly Gln Arg Glu Phe Lys Arg Ile Ser Arg  
275 280 285

Ser Ile Arg Lys Leu Gln Cys Xaa  
290 295

<210> 238

<211> 92

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (89)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (91)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 238

Met Ala Ser Leu Gly His Ile Leu Val Phe Cys Val Gly Leu Leu Thr  
1 5 10 15

Met Ala Lys Ala Glu Ser Pro Lys Glu His Asp Pro Phe Thr Tyr Asp  
20 25 30

Tyr Gln Ser Leu Gln Ile Gly Gly Leu Val Ile Ala Gly Ile Leu Phe  
35 40 45

Ile Leu Gly Ile Leu Ile Val Leu Ser Arg Arg Cys Arg Cys Lys Phe  
50 55 60

Asn Gln Gln Gln Arg Thr Gly Glu Pro Asp Glu Glu Glu Gly Thr Phe  
65 70 75 80

Arg Ser Ser Ile Arg Arg Leu Ser Xaa Arg Xaa Arg  
85 90

<210> 239

<211> 71

<212> PRT

<213> Homo sapiens

<400> 239

Met Pro Gly Thr Phe Leu Arg Pro Phe Val Phe Leu Phe Leu Phe Ile  
1 5 10 15

Cys Cys Cys Leu His Ser Gly Gly Leu Gly Gly Val Pro Leu Pro Pro  
20 25 30

Phe Pro Pro Gln Ala Gln Arg Gly Glu Gly Pro Gly Lys Trp Met Ser  
35 40 45

Pro Pro Leu Pro Pro His Pro Val Val Ala Pro Pro Thr Pro Ser Pro  
50 55 60

Ser Arg Gly Cys Val Leu Leu  
65 70

<210> 240

<211> 71

<212> PRT

<213> Homo sapiens

<400> 240

Met Pro Gly Thr Phe Leu Arg Pro Phe Val Phe Leu Phe Leu Phe Ile  
1 5 10 15

Cys Cys Cys Leu His Ser Gly Gly Leu Gly Gly Val Pro Leu Pro Pro  
20 25 30

Phe Pro Pro Gln Ala Gln Arg Gly Glu Gly Pro Gly Lys Trp Met Ser  
35 40 45

Pro Pro Leu Pro Pro His Pro Val Val Ala Pro Pro Thr Pro Ser Pro  
50 55 60

Ser Arg Gly Cys Val Leu Leu  
65 70

<210> 241

<211> 28

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (11)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (21)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 241

Met Phe Tyr Val Leu Ser Val Ser Xaa Leu Xaa Leu Phe Leu Ala Cys  
1 5 10 15

Gly Leu Cys Leu Xaa Leu Leu Thr Gly Lys Leu Leu  
20 25



<210> 242  
 <211> 58  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (42)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 242  
 Met Lys Leu Phe Asp Ala Ser Pro Thr Phe Phe Ala Phe Leu Leu Gly  
 1 5 10 15  
 His Ile Leu Ala Met Glu Val Leu Ala Trp Leu Leu Ile Tyr Leu Leu  
 20 25 30  
 Gly Pro Gly Trp Val Pro Ser Ala Leu Xaa Arg Leu His Pro Gly His  
 35 40 45  
 Leu Ser Gly Ser Val Leu Val Ser Ala Ala  
 50 55

<210> 243  
 <211> 123  
 <212> PRT  
 <213> Homo sapiens

<400> 243  
 Met Ile Leu Gly Gly Ile Val Val Val Leu Val Phe Thr Gly Phe Val  
 1 5 10 15  
 Trp Ala Ala His Asn Lys Asp Val Leu Arg Arg Met Lys Lys Arg Tyr  
 20 25 30  
 Pro Thr Thr Phe Val Met Val Val Met Leu Ala Ser Tyr Phe Leu Ile  
 35 40 45  
 Ser Met Phe Gly Gly Val Met Val Phe Val Phe Gly Ile Thr Phe Pro  
 50 55 60  
 Leu Leu Leu Met Phe Ile His Ala Ser Leu Arg Leu Arg Asn Leu Lys  
 65 70 75 80  
 Asn Lys Leu Glu Asn Lys Met Glu Gly Ile Gly Leu Lys Arg Thr Pro  
 85 90 95  
 Met Gly Ile Val Leu Asp Ala Leu Glu Gln Gln Glu Glu Gly Ile Asn  
 100 105 110  
 Arg Leu Thr Asp Tyr Ile Ser Lys Val Lys Glu  
 115 120

<210> 244  
 <211> 73  
 <212> PRT  
 <213> Homo sapiens

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<220>
<221> SITE
<222> (21)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (36)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (40)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 244
Ala Leu Val Ser Gly Gln Leu Cys Met Glu Ile Ala Arg Gly Asn Ile
  1                      5                      10          15

Phe Phe Leu Asn Xaa Leu Val Thr Thr Phe Cys Cys Ser Cys Leu Ser
                20                      25          30

Leu Ser Val Xaa Tyr Leu His Xaa Gly Phe Phe Tyr Ser Ser Leu Cys
          35                      40          45

Lys Cys Cys Phe Val Leu Val Val Leu Ser Arg Ile Gly Ser Val Asn
      50                      55          60

Glu Thr Trp Ser Cys Asn Phe Ser Ile
  65                      70

<210> 245
<211> 49
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (43)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 245
Thr Pro Ala Thr Thr Ser Ser Ser Ser Ser Pro Leu Phe Leu Ser Ser
  1                      5                      10          15

Pro Asp Trp Ser Ser Cys Pro Ser Gly Ser Cys Ile Ala Pro Trp Cys
                20                      25          30

Thr His Trp Ser Ser Ile Leu Pro Ser Leu Xaa Ile Thr Ser Ser Ile
          35                      40          45

Pro

<210> 246
<211> 339
<212> PRT
<213> Homo sapiens

<220>

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<221> SITE  
 <222> (339)  
 <223> Xaa equals stop translation

<400> 246

Met	Ala	Arg	Val	Pro	Pro	Leu	Ser	Ser	Ser	Trp	Thr	Ser	Ser	Arg	Tyr
1				5					10					15	
Arg	Arg	Trp	Leu	Cys	Cys	Pro	Val	Trp	Trp	Thr	Thr	Phe	Trp	Ala	Thr
		20						25					30		
Ala	Trp	Ser	Leu	Thr	Lys	His	Leu	Tyr	Lys	Asp	Val	Thr	Asp	Ala	Ile
		35					40						45		
Arg	Asp	Val	His	Val	Lys	Gly	Leu	Met	Tyr	Gln	Trp	Ile	Glu	Gln	Asp
	50					55					60				
Met	Glu	Lys	Tyr	Ile	Leu	Arg	Gly	Asp	Glu	Thr	Phe	Ala	Val	Leu	Ser
65					70					75					80
Arg	Leu	Val	Ala	His	Gly	Lys	Gln	Leu	Phe	Leu	Ile	Thr	Asn	Ser	Pro
				85					90					95	
Phe	Ser	Phe	Val	Asp	Lys	Gly	Met	Arg	His	Met	Val	Gly	Pro	Asp	Trp
			100					105						110	
Arg	His	Ser	Ser	Met	Trp	Ser	Leu	Ser	Arg	Gln	Thr	Ser	Pro	Ala	Ser
		115					120					125			
Ser	Leu	Thr	Gly	Ala	Thr	Phe	Arg	Lys	Leu	Asp	Glu	Lys	Gly	Ser	Leu
	130					135					140				
Gln	Trp	Asp	Arg	Ile	Thr	Arg	Leu	Glu	Lys	Gly	Lys	Ile	Tyr	Arg	Gln
145					150					155					160
Gly	Asn	Leu	Phe	Asp	Phe	Leu	Arg	Leu	Thr	Glu	Trp	Arg	Gly	Pro	Arg
			165						170					175	
Val	Leu	Tyr	Phe	Gly	Asp	His	Leu	Tyr	Ser	Asp	Leu	Ala	Asp	Leu	Met
			180					185					190		
Leu	Arg	His	Gly	Trp	Arg	Thr	Gly	Ala	Ile	Ile	Pro	Glu	Leu	Glu	Arg
		195					200					205			
Glu	Ile	Arg	Ile	Ile	Asn	Thr	Glu	Gln	Tyr	Met	His	Ser	Leu	Thr	Trp
	210					215						220			
Gln	Gln	Ala	Leu	Thr	Gly	Leu	Leu	Glu	Arg	Met	Gln	Thr	Tyr	Gln	Asp
225					230					235					240
Ala	Glu	Ser	Arg	Gln	Val	Leu	Ala	Ala	Trp	Met	Lys	Glu	Arg	Gln	Glu
			245						250					255	
Leu	Arg	Cys	Ile	Thr	Lys	Ala	Leu	Phe	Asn	Ala	Gln	Phe	Gly	Ser	Ile
		260						265					270		
Phe	Arg	Thr	Phe	His	Asn	Pro	Thr	Tyr	Phe	Ser	Arg	Arg	Leu	Val	Arg
		275					280					285			
Phe	Ser	Asp	Leu	Tyr	Met	Ala	Ser	Leu	Ser	Cys	Leu	Leu	Asn	Tyr	Arg
	290					295					300				

Val Asp Phe Thr Phe Tyr Pro Arg Arg Thr Pro Leu Gln His Glu Ala  
305 310 315 320

Pro Leu Trp Met Asp Gln Leu Leu His Arg Leu His Glu Asp Pro Leu  
325 330 335

Pro Trp Xaa

<210> 247

<211> 18

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (17)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 247

Met Ala Leu Leu Ser Cys Val Val Asp Tyr Phe Leu Gly His Ser Leu  
1 5 10 15

Xaa Val

<210> 248

<211> 339

<212> PRT

<213> Homo sapiens

<400> 248

Met Asn Trp Glu Leu Leu Leu Trp Leu Leu Val Leu Cys Ala Leu Leu  
1 5 10 15

Leu Leu Leu Val Gln Leu Leu Arg Phe Leu Arg Ala Asp Gly Asp Leu  
20 25 30

Thr Leu Leu Trp Ala Glu Trp Gln Gly Arg Arg Pro Glu Trp Glu Leu  
35 40 45

Thr Asp Met Val Val Trp Val Thr Gly Ala Ser Ser Gly Ile Gly Glu  
50 55 60

Glu Leu Ala Tyr Gln Leu Ser Lys Leu Gly Val Ser Leu Val Leu Ser  
65 70 75 80

Ala Arg Arg Val His Glu Leu Glu Arg Val Lys Arg Arg Cys Leu Glu  
85 90 95

Asn Gly Asn Leu Lys Glu Lys Asp Ile Leu Val Leu Pro Leu Asp Leu  
100 105 110

Thr Asp Thr Gly Ser His Glu Ala Ala Thr Lys Ala Val Leu Gln Glu  
115 120 125

Phe Gly Arg Ile Asp Ile Leu Val Asn Asn Gly Gly Met Ser Gln Arg  
130 135 140

Ser Leu Cys Met Asp Thr Ser Leu Asp Val Tyr Arg Lys Leu Ile Glu

149

145                      150                      155                      160

Leu Asn Tyr Leu Gly Thr Val Ser Leu Thr Lys Cys Val Leu Pro His  
                                  165                                   170                                   175

Met Ile Glu Arg Lys Gln Gly Lys Ile Val Thr Val Asn Ser Ile Leu  
                                  180                                   185                                   190

Gly Ile Ile Ser Val Pro Leu Ser Ile Gly Tyr Cys Ala Ser Lys His  
                                  195                                   200                                   205

Ala Leu Arg Gly Phe Phe Asn Gly Leu Arg Thr Glu Leu Ala Thr Tyr  
                                  210                                   215                                   220

Pro Gly Ile Ile Val Ser Asn Ile Cys Pro Gly Pro Val Gln Ser Asn  
                                  225                                   230                                   235                                   240

Ile Val Glu Asn Ser Leu Ala Gly Glu Val Thr Lys Thr Ile Gly Asn  
                                  245                                   250                                   255

Asn Gly Asp Gln Ser His Lys Met Thr Thr Ser Arg Cys Val Arg Leu  
                                  260                                   265                                   270

Met Leu Ile Ser Met Ala Asn Asp Leu Lys Glu Val Trp Ile Ser Glu  
                                  275                                   280                                   285

Gln Pro Phe Leu Leu Val Thr Tyr Leu Trp Gln Tyr Met Pro Thr Trp  
                                  290                                   295                                   300

Ala Trp Trp Ile Thr Asn Lys Met Gly Lys Lys Arg Ile Glu Asn Phe  
                                  305                                   310                                   315                                   320

Lys Ser Gly Val Asp Ala Asp Ser Ser Tyr Phe Lys Ile Phe Lys Thr  
                                  325                                   330                                   335

Lys His Asp

<210> 249

<211> 96

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (89)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 249

Met Gly Ala Arg Pro Gly Gly His Pro Gln Lys Trp Ser Phe Leu Trp  
                                  1                                   5                                   10                                   15

Ser Leu Ala Leu Trp Leu Pro Leu Ala Leu Ser Val Ser Leu Phe Leu  
                                  20                                   25                                   30

Gly Leu Ser Leu Ser Pro Pro Gln Pro Gly Leu Ser Leu Trp Cys Thr  
                                  35                                   40                                   45

Leu Ser Tyr Cys Cys Glu Gln Trp Lys Phe Lys Gly Thr Pro Ser Pro  
                                  50                                   55                                   60

Asp Ser Ile Ala Thr Gln Leu Arg Xaa Leu Pro Glu Lys Asn Ser Asn  
85 90 95

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<220>
<221> SITE
<222> (64)
<223> Xaa equals any of the naturally occurring L-amino acids
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<220>  
<221> SITE  
<222> (65)  
<223> Xaa equals any of the naturally occurring L-amino acids
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<400> 250  
Met Ala Leu Thr Phe Leu Leu Val Leu Leu Thr Leu Ala Thr Leu Cys  
1 5 10 15

Thr Arg Leu His Arg Asn Phe Arg Arg Gly Glu Ser Ile Tyr Trp Gly  
20 25 30

Pro Thr Ala Asp Ser Gln Asp Thr Val Ala Ala Val Leu Lys Arg Arg  
35 40 45

Leu Leu Gln Pro Ser Arg Arg Val Lys Arg Ser Arg Arg Arg Pro Xaa  
50 55 60

Xaa Pro Pro Thr Pro Asp Ser Gly Pro Glu Gly Glu Ser Ser Glu  
65 70 75

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<210> 251
<211> 354
<212> PRT
<213> Homo sapiens
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<220>
<221> SITE
<222> (326)
<223> Xaa equals any of the naturally occurring L-amino acids
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<400> 251  
Met Gly Pro Ser Thr Pro Leu Leu Ile Leu Phe Leu Leu Ser Trp Ser  
1 5 10 15

Gly Pro Leu Gln Gly Gln Gln His His Leu Val Glu Tyr Met Glu Arg  
20 25 30

Arg Leu Ala Ala Leu Glu Glu Arg Leu Ala Gln Cys Gln Asp Gln Ser  
35 40 45

Ser Arg His Ala Ala Glu Leu Arg Asp Phe Lys Asn Lys Met Leu Pro  
 50 55 60  
 Leu Leu Glu Val Ala Glu Lys Glu Arg Glu Ala Leu Arg Thr Glu Ala  
 65 70 75 80  
 Asp Thr Ile Ser Gly Arg Val Asp Arg Leu Glu Arg Glu Val Asp Tyr  
 85 90 95  
 Leu Glu Thr Gln Asn Pro Ala Leu Pro Cys Val Glu Phe Asp Glu Lys  
 100 105 110  
 Val Thr Gly Gly Pro Gly Thr Lys Gly Lys Gly Arg Arg Asn Glu Lys  
 115 120 125  
 Tyr Asp Met Val Thr Asp Cys Gly Tyr Thr Ile Ser Gln Val Arg Ser  
 130 135 140  
 Met Lys Ile Leu Lys Arg Phe Gly Gly Pro Ala Gly Leu Trp Thr Lys  
 145 150 155 160  
 Asp Pro Leu Gly Gln Thr Glu Lys Ile Tyr Val Leu Asp Gly Thr Gln  
 165 170 175  
 Asn Asp Thr Ala Phe Val Phe Pro Arg Leu Arg Asp Phe Thr Leu Ala  
 180 185 190  
 Met Ala Ala Arg Lys Ala Ser Arg Val Arg Val Pro Phe Pro Trp Val  
 195 200 205  
 Gly Thr Gly Gln Leu Val Tyr Gly Gly Phe Leu Tyr Phe Ala Arg Arg  
 210 215 220  
 Pro Pro Gly Arg Pro Gly Gly Gly Glu Met Glu Asn Thr Leu Gln  
 225 230 235 240  
 Leu Ile Lys Phe His Leu Ala Asn Arg Thr Val Val Asp Ser Ser Val  
 245 250 255  
 Phe Pro Ala Glu Gly Leu Ile Pro Pro Tyr Gly Leu Thr Ala Asp Thr  
 260 265 270  
 Tyr Ile Asp Leu Ala Ala Asp Glu Glu Gly Leu Trp Ala Val Tyr Ala  
 275 280 285  
 Thr Arg Glu Asp Asp Arg His Leu Cys Leu Ala Lys Leu Asp Pro Gln  
 290 295 300  
 Thr Leu Asp Thr Glu Gln Gln Trp Asp Thr Pro Cys Pro Arg Glu Asn  
 305 310 315 320  
 Ala Glu Ala Ala Phe Xaa Ile Cys Gly Thr Leu Tyr Val Val Tyr Asn  
 325 330 335  
 Thr Arg Pro Ala Ser Arg Ala Arg Ile Gln Cys Ser Phe Asp Ala Ser  
 340 345 350  
 Gly Pro

<211> 109  
 <212> PRT  
 <213> Homo sapiens

<400> 252  
 Met Leu Cys Ile Asn Gly Thr Thr Pro Arg Pro Leu Pro Val Pro Ser  
           1                          5                          10                          15  
 Pro Phe Gly Cys Met Ile Phe Phe Phe Phe Lys Asn Pro Trp Lys Gln  
                   20                          25                          30  
 Arg Leu Leu Gln Gly Trp Leu Gly Ala Arg Pro Ile His Leu Leu Gly  
                   35                          40                          45  
 Tyr Leu Pro Leu Ser Leu Leu Trp Cys Pro Phe Pro Leu Pro Cys Ala  
           50                          55                          60  
 Arg Cys Ser Val Val Tyr Ile Ser Ser Pro Arg His Gly Ala His Ala  
           65                          70                          75                          80  
 Pro Arg Asp Met Ile Leu Ser Leu Val Leu Ala His Gly Ala Leu Tyr  
                   85                          90                          95  
 Lys Glu Leu Gly Gly Arg Gly Arg Lys Trp Glu Pro Ser  
                   100                          105

<210> 253  
 <211> 45  
 <212> PRT  
 <213> Homo sapiens

<400> 253  
 Met Phe Tyr Phe Leu Pro Leu Ile Phe Pro Ala Phe Pro Pro Trp Ala  
           1                          5                          10                          15  
 Phe Arg Leu Ser Thr Leu Phe Thr Ile Ile Ser Trp Ser Glu Asp Ser  
                   20                          25                          30  
 Asn Asn Ser Gln Val Tyr Met Asn Cys Val Cys Ser Phe  
           35                          40                          45

<210> 254  
 <211> 315  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (9)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (311)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (315)  
 <223> Xaa equals stop translation



&lt;400&gt; 254

Met Ala Gly Gly Arg Cys Gly Pro Xaa Leu Thr Ala Leu Leu Ala Ala  
 1 5 10 15

Trp Ile Ala Ala Val Ala Ala Thr Ala Gly Pro Glu Glu Ala Ala Leu  
 20 25 30

Pro Pro Glu Gln Ser Arg Val Gln Pro Met Thr Ala Ser Asn Trp Thr  
 35 40 45

Leu Val Met Glu Gly Glu Trp Met Leu Lys Phe Tyr Ala Pro Trp Cys  
 50 55 60

Pro Ser Cys Gln Gln Thr Asp Ser Glu Trp Glu Ala Phe Ala Lys Asn  
 65 70 75 80

Gly Glu Ile Leu Gln Ile Ser Val Gly Lys Val Asp Val Ile Gln Glu  
 85 90 95

Pro Gly Leu Ser Gly Arg Phe Phe Val Thr Thr Leu Pro Ala Phe Phe  
 100 105 110

His Ala Lys Asp Gly Ile Phe Arg Arg Tyr Arg Gly Pro Gly Ile Phe  
 115 120 125

Glu Asp Leu Gln Asn Tyr Ile Leu Glu Lys Lys Trp Gln Ser Val Glu  
 130 135 140

Pro Leu Thr Gly Trp Lys Ser Pro Ala Ser Leu Thr Met Ser Gly Met  
 145 150 155 160

Ala Gly Leu Phe Ser Ile Ser Gly Lys Ile Trp His Leu His Asn Tyr  
 165 170 175

Phe Thr Val Thr Leu Gly Ile Pro Ala Trp Cys Ser Tyr Val Phe Phe  
 180 185 190

Val Ile Ala Thr Leu Val Phe Gly Leu Phe Met Gly Leu Val Leu Val  
 195 200 205

Val Ile Ser Glu Cys Phe Tyr Val Pro Leu Pro Arg His Leu Ser Glu  
 210 215 220

Arg Ser Glu Gln Asn Arg Arg Ser Glu Glu Ala His Arg Ala Glu Gln  
 225 230 235 240

Leu Gln Asp Ala Glu Glu Glu Lys Asp Asp Ser Asn Glu Glu Glu Asn  
 245 250 255

Lys Asp Ser Leu Val Asp Asp Glu Glu Glu Lys Glu Asp Leu Gly Asp  
 260 265 270

Glu Asp Glu Ala Glu Glu Glu Glu Glu Asp Asn Leu Ala Ala Gly  
 275 280 285

Val Asp Glu Glu Arg Ser Glu Ala Asn Asp Gln Gly Pro Pro Gly Glu  
 290 295 300

Asp Gly Val Thr Arg Glu Xaa Ser Arg Ala Xaa  
 305 310 315

<210> 255  
 <211> 53  
 <212> PRT  
 <213> Homo sapiens

<400> 255  
 Met Leu Lys Ala Leu Phe Arg Thr Leu Gln Ala Met Leu Leu Gly Val  
           1                  5                  10                  15  
 Trp Ile Leu Leu Leu Leu Ala Ser Leu Ala Pro Leu Trp Leu Tyr Cys  
                   20                  25                  30  
 Trp Arg Met Phe Pro Thr Lys Gly Lys Arg Asp Gln Lys Glu Met Leu  
                   35                  40                  45  
 Glu Val Ser Gly Ile  
                   50

<210> 256  
 <211> 93  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (93)  
 <223> Xaa equals stop translation  
 <400> 256  
 Met Ile His Leu Gly His Ile Leu Phe Leu Leu Leu Pro Val Ala  
           1                  5                  10                  15  
 Ala Ala Gln Thr Thr Pro Gly Glu Arg Ser Ser Leu Pro Ala Phe Tyr  
                   20                  25                  30  
 Pro Gly Thr Ser Gly Ser Cys Ser Gly Cys Gly Ser Leu Ser Leu Pro  
                   35                  40                  45  
 Leu Leu Ala Gly Leu Val Ala Ala Asp Ala Val Ala Ser Leu Leu Ile  
           50                  55                  60  
 Val Gly Ala Val Phe Leu Cys Ala Arg Pro Arg Arg Ser Pro Ala Gln  
           65                  70                  75                  80  
 Asp Gly Lys Val Tyr Ile Asn Met Pro Gly Arg Gly Xaa  
                   85                  90

<210> 257  
 <211> 12  
 <212> PRT  
 <213> Homo sapiens

<400> 257  
 Pro Gly His Leu Leu Pro His Lys Trp Glu Asn Cys  
           1                  5                  10

<210> 258  
 <211> 1852

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 258

TGGCATCTGT	GAGCAGCTGC	CAGGCTCCGG	CCAGGATCCC	TTCTTCTCCTC	TCATTGGCTG	60
ATGGATCCCA	AGGGGCTCCT	CTCCTTGACC	TTCTGTGCTGT	TTCTCTCCCT	GGCTTTTGGG	120
GCAAGCTACG	GAACAGGTGG	GCGCATGATG	AACTGCCCAA	AGATTCTCCG	GCAGTTGGGA	180
AGCAAAGTGC	TGCTGCCCTT	GACATATGAA	AGGATAAATA	AGAGCATGAA	CAAAAGCATC	240
CACATTGTCT	TCACAATGGC	AAAATCACTG	GAGAACAGTG	TCGAGAACAA	AATAGTGTCT	300
CTTGATCCAT	CCGAAGCAGG	CCCTCCACGT	TATCTAGGAG	ATCGCTACAA	GTTTTATCTG	360
GAGAATCTCA	CCCTGGGGAT	ACGGGAAAGC	AGGAAGGAGG	ATGAGGGATG	GTACCTTATG	420
ACCTTCGGGA	AAAATGTTTC	AGTTCAGCGC	TTTTCGCTGC	AGTTAGGGCT	TTATGAGCAG	480
GTCCTCCACT	CAGAAATTAA	AGTTTTAAAC	AAGACCCAGG	AGAACGGGAC	CTGCACCTTG	540
ATACTGGGCT	GCACAGTGGA	GAAGGGGGAC	CATGTGGCTT	ACAGCTGGAG	TGAAAAGGCG	600
GGCACCCACC	CACTGAACCC	AGCCAACAGC	TCCCACCTCC	TGTCCTCTAC	CCTCGGCCCC	660
CAGCATGCTG	ACAAATATCTA	CATCTGCACC	GTGAGCAACC	CTATCAGCAA	CAATTCCCAG	720
ACCTTCAGCC	CGTGGCCCGG	ATGCAGGACA	GACCCTCAG	AAACAAAACC	ATGGGCAGTG	780
TATGCTGGGC	TGTTAGGGGG	TGTCATCATG	ATTCTCATCA	TGGTGGTAAT	ACTACAGTTG	840
AGAAGAAGAG	GTAACAAGAA	CCATTACCAG	ACAACAGTGG	AAAAAAAAG	CCTTACGATC	900
TATGCCCAAG	TCCAGAAACC	AGGTGACACT	CATCATCAGA	CTTCGGACTT	ATTCTAATCC	960
AGGATGACCT	TATTTTGAAA	TCCTTATCTT	GACATCTGTG	AAGACCTTTA	TTCAAATAAA	1020
GTCACATTTT	GACATTCTGC	GAGGGGCTGG	AGCCGGGCGG	GGGCGATGTG	GAGCGCGGGC	1080
CGCGGCGGGG	CTGCCCTGGC	GGTGTGTGTT	GGGCTGTGTC	TGGCGCTGTT	AGTGCCGGGC	1140
GGTGGTGCCG	CCAAGACCGG	TGCGGAGCTC	GTGACTGCGG	GTCGGTGCTG	AAGCTGCTCA	1200
ATACGCACCA	CCGCTGCGGC	TGCACCTGCA	CGACATCAAA	TACGGATCCG	GCAGCGGCCA	1260
GCAATCGGTG	ACCGGCGTAG	AGGTGCGAGC	GACGAATAGC	TACTGGCGGA	TCCGCGCGGG	1320
CTCGGAGGGG	GGTGCCCGCG	CGGGTCCCCG	GTGCGCTGCG	GGCAGGCGGT	GAGGTCACAC	1380
ATGTGCTTAC	GGGCAAGAAC	CTGCACACGC	ACCACTTCCC	GTGCGCGCTG	TCCAACAACC	1440
AGGAAGTGAG	TGCCAAAGGG	GAAGACGGCG	AGGGCGACGA	CCTGGACCTA	TGGACAGTGC	1500
GCTGCTCTGC	TCTGGACAGC	ACTGGGAGCG	TGAGGCTGCT	GTGGCGCCTT	CCAGCATGTG	1560
GCACCTCTGT	GGTTCCTGTC	AGTCACGGTA	GCAGTATGGA	AGCCCCATCC	GTGGGCAGCA	1620
TGAGGTCCAC	GCATGCCCCG	TGCCAACACG	CACAATACGT	GGAAGGCCAT	GGAAGGCATC	1680
TTCATCAAGC	CTAGTGTGGA	GCCCTCTGCA	GGTCACGATG	AACTCTGAGT	GTGTGGATGG	1740

ATGGGTGGAT GGAGGGTGGC AGGTGGGGCG TCTGCAGGGC CACTCTTGGC AGAGACTTTG 1800  
GGTTTGTAGG GGTCCTCAAG TGCCTTTGTG ATTAAGAAGT GTTGGTCTAT GA 1852

<210> 259

<211> 371

<212> PRT

<213> Homo sapiens

<400> 259

Met Glu Leu Glu Leu Asp Ala Gly Asp Gln Asp Leu Leu Ala Phe Leu  
1 5 10 15

Leu Glu Glu Ser Gly Asp Leu Gly Thr Ala Pro Asp Glu Ala Val Arg  
20 25 30

Ala Pro Leu Asp Trp Ala Leu Pro Leu Ser Glu Val Pro Ser Asp Trp  
35 40 45

Glu Val Asp Asp Leu Leu Cys Ser Leu Leu Ser Pro Pro Ala Ser Leu  
50 55 60

Asn Ile Leu Ser Ser Ser Asn Pro Cys Leu Val His His Asp His Thr  
65 70 75 80

Tyr Ser Leu Pro Arg Glu Thr Val Ser Met Asp Leu Glu Ser Glu Ser  
85 90 95

Cys Arg Lys Glu Gly Thr Gln Met Thr Pro Gln His Met Glu Glu Leu  
100 105 110

Ala Glu Gln Glu Ile Ala Arg Leu Val Leu Thr Asp Glu Glu Lys Ser  
115 120 125

Leu Leu Glu Lys Glu Gly Leu Ile Leu Pro Glu Thr Leu Pro Leu Thr  
130 135 140

Lys Thr Glu Glu Gln Ile Leu Lys Arg Val Arg Arg Lys Ile Arg Asn  
145 150 155 160

Lys Arg Ser Ala Gln Glu Ser Arg Arg Lys Lys Val Tyr Val Gly  
165 170 175

Gly Leu Glu Ser Arg Val Leu Lys Tyr Thr Ala Gln Asn Met Glu Leu  
180 185 190

Gln Asn Lys Val Gln Leu Leu Glu Gln Asn Leu Ser Leu Leu Asp  
195 200 205

Gln Leu Arg Lys Leu Gln Ala Met Val Ile Glu Ile Ser Asn Lys Thr  
210 215 220

Ser Ser Ser Ser Thr Cys Ile Leu Val Leu Leu Val Ser Phe Cys Leu  
225 230 235 240

Leu Leu Val Pro Ala Met Tyr Ser Ser Asp Thr Arg Gly Ser Leu Pro  
245 250 255

Ala Glu His Gly Val Leu Ser Arg Gln Leu Arg Ala Leu Pro Ser Glu  
260 265 270

Asp Pro Tyr Gln Leu Glu Leu Pro Ala Leu Gln Ser Glu Val Pro Lys  
275 280 285

Asp Ser Thr His Gln Trp Leu Asp Gly Ser Asp Cys Val Leu Gln Ala  
290 295 300

Pro Gly Asn Thr Ser Cys Leu Leu His Tyr Met Pro Gln Ala Pro Ser  
305 310 315 320

Ala Glu Pro Pro Leu Glu Trp Pro Phe Pro Asp Leu Ser Ser Glu Pro  
325 330 335

Leu Cys Arg Gly Pro Ile Leu Pro Leu Gln Ala Asn Leu Thr Arg Lys  
340 345 350

Gly Gly Trp Leu Pro Thr Gly Ser Pro Ser Val Ile Leu Gln Asp Arg  
355 360 365

Tyr Ser Gly  
370

<210> 260

<211> 98

<212> PRT

<213> Homo sapiens

<400> 260

Asn Lys Arg Pro Thr Phe Leu Lys Ile Lys Lys Pro Leu Ser Tyr Arg  
1 5 10 15

Lys Pro Met Asp Thr Asp Leu Val Tyr Ile Glu Lys Ser Pro Asn Tyr  
20 25 30

Cys Glu Glu Asp Pro Val Thr Gly Ser Val Gly Thr Gln Gly Arg Ala  
35 40 45

Cys Asn Lys Thr Ala Pro Gln Ala Ser Gly Cys Asp Leu Met Cys Cys  
50 55 60

Gly Arg Gly Tyr Asn Thr His Gln Tyr Ala Arg Val Trp Gln Cys Asn  
65 70 75 80

Cys Lys Phe His Trp Cys Cys Tyr Val Lys Cys Asn Thr Cys Ser Glu  
85 90 95

Arg Thr

<210> 261

<211> 165

<212> PRT

<213> Homo sapiens

<400> 261

Ser Ala Glu Pro Ala Gly Thr Phe Leu Ile Arg Asp Ser Ser Asp Gln  
1 5 10 15

Arg His Phe Phe Thr Leu Ser Val Lys Thr Gln Ser Gly Thr Lys Asn  
20 25 30

Leu Arg Ile Gln Cys Glu Gly Gly Ser Phe Ser Leu Gln Ser Asp Pro  
           35                  40                  45  
 Arg Ser Thr Gln Pro Val Pro Arg Phe Asp Cys Val Leu Lys Leu Val  
           50                  55                  60  
 His His Tyr Met Pro Pro Pro Gly Ala Pro Ser Phe Pro Ser Pro Pro  
           65                  70                  75                  80  
 Thr Glu Pro Ser Ser Glu Val Pro Glu Gln Pro Ser Ala Gln Pro Leu  
                   85                  90                  95  
 Pro Gly Ser Pro Pro Arg Arg Ala Tyr Tyr Ile Tyr Ser Gly Gly Glu  
                   100                  105                  110  
 Lys Ile Pro Leu Val Leu Ser Arg Pro Leu Ser Ser Asn Val Ala Thr  
           115                  120                  125  
 Leu Gln His Leu Cys Arg Lys Thr Val Asn Gly His Leu Asp Ser Tyr  
           130                  135                  140  
 Glu Lys Val Thr Gln Leu Pro Gly Pro Ile Arg Glu Phe Leu Asp Gln  
           145                  150                  155                  160  
 Tyr Asp Ala Pro Leu  
                   165

<210> 262  
 <211> 40  
 <212> PRT  
 <213> Homo sapiens

<400> 262  
 Met Val Thr His Ser Lys Phe Pro Ala Ala Gly Met Ser Arg Pro Leu  
           1                  5                  10                  15  
 Asp Thr Ser Leu Arg Leu Lys Thr Phe Ser Ser Lys Ser Glu Tyr Gln  
                   20                  25                  30  
 Leu Val Val Asn Ala Val Arg Lys  
           35                  40

<210> 263  
 <211> 33  
 <212> PRT  
 <213> Homo sapiens

<400> 263  
 Gln Glu Ser Gly Phe Tyr Trp Ser Ala Val Thr Gly Gly Glu Ala Asn  
           1                  5                  10                  15  
 Leu Leu Leu Ser Ala Glu Pro Ala Gly Thr Phe Leu Ile Arg Asp Ser  
                   20                  25                  30

Ser

<210> 264

Val Leu Ser Arg Arg Cys Arg Cys Lys Phe Asn Gln Gln Gln Arg Thr

[illegible]

45

Leu Ser Thr Arg Arg Arg  
65 70

&lt;211&gt; 65

&lt;212&gt; PRT

<213> Homo sapiens

<400> 270

Met Asp Val Asn Ile Ala Pro Leu Arg Ala Trp Asp Asp Phe Phe Pro  
1 5 10 15

Gly Ser Asp Arg Phe Ala Arg Pro Asp Phe Arg Asp Ile Ser Lys Trp  
20 25 30

Asn Asn Arg Val Val Ser Asn Leu Leu Tyr Tyr Gln Thr Asn Tyr Leu  
35 40 45

Val Val Ala Ala Met Met Ile Ser Ile Val Gly Phe Leu Ser Pro Phe  
50 55 60

Asn  
65

&lt;210&gt; 271

&lt;211&gt; 127

<212> PRT

<213> Homo sapiens

<220>

&lt;221&gt; SITE

&lt;222&gt; (37)

<223> Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 271

Gly Leu Ala Cys Trp Leu Ala Gly Val Ile Phe Ile Asp Arg Lys Arg  
1 5 10 15

Thr Gly Asp Ala Ile Ser Val Met Ser Glu Val Ala Gln Thr Leu Leu  
20 25 30

Thr Gln Asp Val Xaa Val Trp Val Phe Pro Glu Gly Thr Arg Asn His  
35 40 45

Asn Gly Ser Met Leu Pro Phe Lys Arg Gly Ala Phe His Leu Ala Val  
50 55 60

Gln Ala Gln Val Pro Ile Val Pro Ile Val Met Ser Ser Tyr Gln Asp  
65 70 75 80

Phe Tyr Cys Lys Lys Glu Arg Arg Phe Thr Ser Gly Gln Cys Gln Val  
85 90 95

Arg Val Leu Pro Pro Val Pro Thr Glu Gly Leu Thr Pro Asp Asp Val  
100 105 110



Pro Ala Leu Ala Asp Arg Val Arg His Ser Met Leu His Cys Phe  
 115 120 125

<210> 272  
 <211> 98  
 <212> PRT  
 <213> Homo sapiens

<400> 272  
 Pro Ser Ala Lys Tyr Phe Phe Lys Met Ala Phe Tyr Asn Gly Trp Ile  
 1 5 10 15

Leu Phe Leu Ala Val Leu Ala Ile Pro Val Cys Ala Val Arg Gly Arg  
 20 25 30

Asn Val Glu Asn Met Lys Ile Leu Arg Leu Met Leu Leu His Ile Lys  
 35 40 45

Tyr Leu Tyr Gly Ile Arg Val Glu Val Arg Gly Ala His His Phe Pro  
 50 55 60

Pro Ser Gln Pro Tyr Val Val Val Ser Asn His Gln Ser Ser Leu Asp  
 65 70 75 80

Leu Leu Gly Met Met Glu Val Leu Pro Gly Arg Cys Val Pro Ile Ala  
 85 90 95

Lys Arg

<210> 273  
 <211> 9  
 <212> PRT  
 <213> Homo sapiens

<400> 273  
 Thr Val Phe Arg Glu Ile Ser Thr Asp  
 1 5

<210> 274  
 <211> 11  
 <212> PRT  
 <213> Homo sapiens

<400> 274  
 Leu Trp Ala Gly Ser Ala Gly Trp Pro Ala Gly  
 1 5 10

<210> 275  
 <211> 29  
 <212> PRT  
 <213> Homo sapiens

<400> 275  
 Ser Ile Leu Gly Ile Ile Ser Val Pro Leu Ser Ile Gly Tyr Cys Ala  
 1 5 10 15

Ser Lys His Ala Leu Arg Gly Phe Phe Asn Gly Leu Arg  
 20 25

<210> 276

<211> 8

<212> PRT

<213> Homo sapiens

<400> 276

Met Ala Tyr His Gly Leu Thr Val  
 1 5

<210> 277

<211> 6

<212> PRT

<213> Homo sapiens

<400> 277

Ile Ser Ala Ala Arg Val  
 1 5

<210> 278

<211> 11

<212> PRT

<213> Homo sapiens

<400> 278

Pro Asp Val Ser Glu Phe Met Thr Arg Leu Phe  
 1 5 10

<210> 279

<211> 17

<212> PRT

<213> Homo sapiens

<400> 279

Phe Asp Pro Val Arg Val Asp Ile Thr Ser Lys Gly Lys Met Arg Ala  
 1 5 10 15

Arg

<210> 280

<211> 168

<212> PRT

<213> Homo sapiens

<400> 280

Met Ala Ala Ala Leu Trp Gly Phe Phe Pro Val Leu Leu Leu Leu  
 1 5 10 15

Leu Ser Gly Asp Val Gln Ser Ser Glu Val Pro Gly Ala Ala Ala Glu  
 20 25 30

Gly Ser Gly Gly Ser Gly Val Gly Ile Gly Asp Arg Phe Lys Ile Glu  
 35 40 45

$$\begin{array}{l} \text{1. } \frac{1}{2} \frac{d}{dt} \left( \frac{1}{2} \frac{d^2}{dt^2} \right) \\ \text{2. } \frac{1}{2} \frac{d}{dt} \left( \frac{1}{2} \frac{d^2}{dt^2} \right) \\ \text{3. } \frac{1}{2} \frac{d}{dt} \left( \frac{1}{2} \frac{d^2}{dt^2} \right) \\ \text{4. } \frac{1}{2} \frac{d}{dt} \left( \frac{1}{2} \frac{d^2}{dt^2} \right) \\ \text{5. } \frac{1}{2} \frac{d}{dt} \left( \frac{1}{2} \frac{d^2}{dt^2} \right) \\ \text{6. } \frac{1}{2} \frac{d}{dt} \left( \frac{1}{2} \frac{d^2}{dt^2} \right) \\ \text{7. } \frac{1}{2} \frac{d}{dt} \left( \frac{1}{2} \frac{d^2}{dt^2} \right) \\ \text{8. } \frac{1}{2} \frac{d}{dt} \left( \frac{1}{2} \frac{d^2}{dt^2} \right) \\ \text{9. } \frac{1}{2} \frac{d}{dt} \left( \frac{1}{2} \frac{d^2}{dt^2} \right) \\ \text{10. } \frac{1}{2} \frac{d}{dt} \left( \frac{1}{2} \frac{d^2}{dt^2} \right) \end{array}$$
[illegible]